



Automotive Products Selector Guide

AUDIO ASSPs

Device	Description	Power Dissipation Max (mW)	Supply Voltage Min (V)	Supply Voltage Max (V)	Operating Temp Min (°C)	Operating Temp Max (°C)	Package(s)
LC72725KV	RDS Demodulator	100	3	5.5	-40	85	SSOP-16
LC727101UW*	RDS Demodulator with CCB/Parallel control	200	3	3.6	-40	85	SQFP64
LC72717PW	Mobile FM Multiplex Broadcast Demodulator (DARC) Receiver	100	2.7	3.6	-40	85	SPQFP-64, SQFP-64

NOTE: Contact ON Semiconductor for AEC and PPAP status. * Pending 4Q16.

AUDIO DSPs

Device	Description	DSP Core (bits)	MIPS	RAM (kB)	Audio Inputs	Audio Outputs	Package(s)
LC786820E	Compressed Audio Signal Processor IC with USB Host Controller	24	64	320	Analog x3, Digital x3	Analog stereo x1, Analog mono x1, Digital x1	PQFP-100, QIP-100E
LC786821E*	Compressed Audio Signal Processor IC with USB Host Controller and Bluetooth	24	64	320	Analog x3, Digital x3	Analog stereo x1, Analog mono x1, Digital x1	PQFP-100, QIP-100E

NOTE: Contact ON Semiconductor for AEC and PPAP status. * Pending 3Q16.

LCD DRIVERS

Device	Segments*			VDD (V)	Interface Voltage (V)	V _{LCD} (V)	Output Ports	PWM Channels	Package(s)
	Static, 1/2 Duty	1/3 Duty, 1/4 Duty							
LC75843	24 to 28, 46 to 54	66 to 78, 84 to 100		4.0 - 6.3	3.3 or 5.0	VDD	4	3	TSSOP-36
	1/3 Duty	1/4 Duty							
LC75897	363 to 387	480 to 512		2.7 - 6.0	VDD	2.7 - 6.0	8	3	SQFP-144
LC75809	231 to 267	304 to 352		4.5 - 6.3	3.3 - 5.0	VDD	12	6	TQFP-100
LC75879	183 to 207	240 to 272		4.5 - 6.3	3.3 - 5.0	VDD	8	3	TQFP-80J
LC75829	147 to 159	192 to 208		4.5 - 6.0	3.3 or 5.0	VDD	4	—	QIP-64E, SQFP-64
LC75839	147 to 159	192 to 208		4.5 - 6.0	3.3 or 5.0	VDD	4	3	SQFP-64
LC450029	159	208		4.5 - 6.0	VDD	VDD	—	—	Chip w/ Au Bumps
LC75806	198 to 231	260 to 304		4.5 - 6.0	3.3 or 5.0	VDD	9	—	TQFP-100
LC75886	150 to 171	196 to 224		4.5 - 6.0	3.3 or 5.0	VDD	5	—	SQFP-80
	1/8 Duty	1/9 Duty	1/10 Duty						
LC75818	Dot matrix (5 x 7) x 16 + 80	Dot matrix (5 x 8) x 16 + 80	Dot matrix (5 x 9) x 16 + 80	2.7 - 3.6	3.3 or 5.0	4.5 - 10.0	4	—	TQFP-120
LC75812	Dot matrix (5 x 7) x 13 + 65	Dot matrix (5 x 8) x 12 + 64	—	2.7 - 3.6	3.3 or 5.0	4.5 - 10.0	3	3	TQFP-100
	Static, 1/2 Duty	1/3 Duty, 1/4 Duty	LED Driver						
LC75805	38, 74	108, 140	48 channel	4.5 - 5.5	VDD	VDD	—	7	QIP-100E

NOTE: Contact ON Semiconductor for AEC and PPAP status. * Number of segments depends on 'common v segment' configuration.

LED DRIVERS

Device	Description	Topology	V _I Min (V)	V _I Max (V)	V _O Max (V)	I _O Max (mA)	f _{sw} Typ (kHz)	LEDs in Series, Max	LEDs in Parallel, Max	Package(s)
CAV4201	350 mA High Efficiency LED Driver	Step-Down	7	—	32	350	1000	—	1	TSOT-23-5
NCV3065	1.5 A Constant Current Inverting Switching Regulator for HB-LEDs	Step-Down; Step-Up; Step-Up/Step-Down	3	40	40	1500	250	8	10	DFN-8; SOIC-8
NCV3066	1.5 A Constant Current Inverting Switching Regulator for HB-LEDs with Enable	Step-Down; Step-Up; Step-Up/Step-Down	3	40	40	1500	250; Up to 300	8	10	DFN-8; SOIC-8
NCV7680	Linear Current Regulator and Controller for LED Rear Combination Lamp	Linear	6	45	45	75	1	—	8	SOIC-16W EP
NCV7691	Current Controller for Automotive LED Lamps	Linear	4.5	18	18	1000	25	3	8	SOIC-8
NUD4001	High Current LED Driver	Linear	3.6	30	28	500	—	8	—	SOIC-8
NUD4011	Constant Current Regulator & LED Driver	Linear	3.6	—	200	70	—	100	—	SOIC-8

NOTE: Contact ON Semiconductor for AEC and PPAP status.

CONSTANT CURRENT REGULATORS

Device	Max V _{AK} (V)	Cont I _{reg} (mA)	I _{reg} (%)	P _D (mW)	Package(s)
NSV50010Y	50	10	±30	463	SOD-123
NSV45015W	45	15	±20	463	
NSI45030	45	30	±15	463	
NSV45025	45	25	±15	463	
NSV45020	45	20	±15	463	
NSV45030A	45	30	±10	463	
NSI45025A	45	25	±10	463	
NSV45020A	45	20	±10	463	
NSV45035JZ	45	35 - 70	±15	1389	SOT-223
NSV45020JZ	45	20 - 40	±15	1389	
NSI45030Z	45	30	±15	1389	
NSI45025Z	45	25	±15	1389	
NSI45030AZ	45	30	±10	1389	
NSV45025AZ	45	25	±10	1389	
NSV45060JD	45	60 - 100	±15	2700	DPAK
NSV45090JD	45	90 - 160	±15	2700	
NSI50150AD	50	150 - 350	±10	4200	
NSI50350AD	50	350	±10	11000	
NSI50350AS	50	350	±10	5800	SMC
NSV2050JB	120	50	±15	3000	SMB
NSV2030JB	120	30	±15	3000	
NSV2020JB	120	20	±15	3000	

NOTE: Contact ON Semiconductor for AEC and PPAP status.

RELAY DRIVERS

Device	Configuration	Circuit Type *	Voltage (V)	Current (mA)	Package(s)
SZNUD3124	Single	MOSFET	24	150	SOT-23
SZNUD3124D	Dual	MOSFET	24	150	SC-74
SZNUD3160	Single	MOSFET	60	150	SOT-23
SZNUD3160D	Dual	MOSFET	60	150	SC-74

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * MOSFET: the driver circuit consists of a MOSFET combined with resistors and diodes.

MOTOR DRIVER MODULES

Device	Description	V _B Max	I _{out} Max	R _S	Pre-Driver	MOSFET	Current Limit	Thermal Shutdown	UVLO	DIAG Function	Package(s)
STK984-090A-E	3-Phase BLDC Motor Driver	40 V	20 A	3 mΩ	✓	✓	✓	✓	✓	✓	SIP-23
STK984-190-E	Power MOSFET Module	40V	30A	—	—	✓	—	—	—	—	SPCM24

NOTE: Contact ON Semiconductor for AEC and PPAP status.

MOTOR DRIVER

Device	Description	Operating Voltage Min (V)	Operating Voltage Max (V)	Output Current (mA)	T _{jmax} (°C)	Regulator Voltage (V)	Control Type	LIN I/F	SPI	Current Limit	Over Voltage	Thermal Shutdown	Package(s)
LV8907UW	Three-phase BLDC sensorless pre driver with speed control	5.5	20	50	175	3.3 or 5.0	PWM	✓	✓	✓	✓	✓	SQFP48K

NOTE: Contact ON Semiconductor for AEC and PPAP status.

MULTI-CHANNEL DRIVERS

Device	Description	SPI	Output Current	Current Limit Min (A)	R _{DS(on)} @ 25°C	V _{s_op} (V)	V _s Peak Transient (V)	Sleep Mode	On-Chip Flyback Diode	Active Output Clamp	Parallel Inputs	Fault Reporting	Undervoltage Lockout	Open Load Detect	Current Limit	Overvoltage	Overtemperature	Low Duty Cycle Overcurrent Mode	Package(s)
NCV1413	Darlington Transistor Array	—	500 mA	—	—	30	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SOIC-16
NCV7608	Configurable 8-Fold High/Low-Side Driver	16-bit	350 mA	0.8	1.2	3 - 28	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SOIC-28, SSOP-36 EP
NCV7702B	Dual H-Bridge Driver	—	—	1	—	7 - 16	60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SOIC-24
NCV7703B	Triple Half-Bridge Driver	16-bit	500 mA	1	0.8	5.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SOIC-14
NCV7708B	Dual Hex High/Low-Side Driver	16-bit	500 mA	1	0.8	5.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SOIC-28
NCV7708E	Dual Hex High/Low-Side Driver	16-bit	500 mA	1	0.8	5.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SOIC-28
NCV7708F	Dual Hex High/Low-Side Driver	16-bit	500 mA	1	0.8	5.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24
NCV7718	Hex Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24
NCV7719	Octal Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24 EP
NCV7720	Deca Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24 EP
NCV7240	8x Low-Side Driver	16-bit	300 mA	0.6	1.5	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24
NCV7728	Hex Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 40	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24
NCV7751	12x Low-Side Driver	16/24/32-bit	300 mA	0.6	1.3	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24 EP
NCV7754	8x Low-Side Driver	16-bit	300 mA	0.5	0.8	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SSOP-24

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

DOOR DRIVERS

	Device	SPI	Safe Lock	Door Locking	Mirror Fold	Mirror X-Axis	Mirror Y-Axis	ECM	Mirror Defroster	LED Blinker	LED Floor Step Light (LED/Bulb)	Safety Light (LED/Bulb)	Protection (Over Voltage & Under Voltage)	Protection (Over Current, Under Load & Thermal)	Current Sense & PWM	Package(s)
Front Door/ Mirror	NCV7703B	16-bit	—	—	—	0.8 Ω	0.8 Ω	—	—	—	—	—	✓	✓		SOIC-14
	NCV7707	24-bit	0.15, 0.3 Ω	0.15 Ω	0.3 Ω	1.6 Ω	1.6 Ω	DAC + LS	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	1.4 Ω	✓	✓	✓	SSOP-36
Back Door Lock	NCV7710	24-bit	—	0.15 Ω	—	—	—	—	—	—	—	—	✓	✓	✓	SSOP-36
	NCV7704	24-bit	—	—	—	1.6 Ω	1.6 Ω	—	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	—	✓	✓	✓	SSOP-36
Mirror Module	NCV7705	24-bit	—	—	0.3 Ω	1.6 Ω	1.6 Ω	—	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	0.6/1.4 Ω	✓	✓	✓	SSOP-36
	NCV7714	24-bit	—	—	—	1.6 Ω	1.6 Ω	DAC + LS	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	—	✓	✓	✓	SSOP-36

NOTE: Contact ON Semiconductor for AEC and PPAP status.

PRE-DRIVERS

Device	Description	Output Current	R _{DS(ON)} @ 25°C	Sleep Mode	On-Chip Flyback Diode	Parallel Inputs	SPI	Fault Reporting	Undervoltage Lockout	Open Load Detect	Current Limit	Peak Transient	Package(s)
NCV7513B	Hex Low-Side MOSFET Driver	3.6 mA	1.8 kΩ	✓		✓	✓	✓	✓	✓	✓	6.5 V	LQFP-32
NCV7517B	Hex Low-Side MOSFET Driver	18 mA	350 Ω	✓		✓	✓	✓	✓	✓	✓	6.5 V	LQFP-32
NCV7518	Hex Low-Side MOSFET Driver	18 mA	350 Ω	✓		✓	✓	✓	✓	✓	✓	5.8 V	QFN-32
NCV33152	High Speed Dual MOSFET Drivers	1.5 A	—	✓	✓	✓						20 V	SOIC-8
NCV5104	Single Input High and Low Side Power MOSFET Driver	250/500 mA	30/10	✓					✓			20 V	SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

LIN TRANSCEIVERS

Device	Description	Bus Speed (Baud)	ISO 9141	LIN 2.0/2.1/2.2	J2602	Sleep Mode Current (μA)	ESD Protection IEC 61000-4-2 (LIN pin)	Package(s)
AMIS-30600	LIN Transceiver	20 k	✓	✓	✓	55	6 kV	SOIC-8
NCV7321	LIN Transceiver	20 k	✓	✓	✓	10	>12 kV	SOIC-8
NCV7424	Quad LIN Transceiver	20 k	✓	✓	✓	30	>12 kV	TSSOP-16
NCV7420	LIN Transceiver with Voltage Regulator (50 mA, 3.3 or 5.0 V)	20 k	✓	✓	✓	20	>12 kV	SOIC-14
NCV7425	LIN Transceiver with Voltage Regulator (150 mA, 3.3 or 5.0 V)	20 k	✓	✓	✓	20	>12 kV	SOIC-16W EP
NCV7428	LIN (low slope, normal slope) Transceiver with Voltage Regulator (70 mA, 3.3 or 5.0 V)	20 k	✓	✓	✓	25	>12 kV	SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

CAN TRANSCEIVERS

Device	Description	Standard	Sleepmode Current Max (μA)	Bus Speed Max	ESD Protection IEC 61000-4-2 (CAN pins)	Package(s)
NCV7349	High Speed, Low Power CAN Transceiver**	ISO11898-5	15	1 Mbps	>12 kV	SOIC-8
NCV7342	High Speed, Low Power CAN Transceiver	ISO11898-5	15	1 Mbps	>12 kV	SOIC-8
NCV7340	High Speed, Low Power CAN Transceiver	ISO11898-5	15	1 Mbps	>12 kV	SOIC-8
AMIS-42665	High Speed, Low Power CAN Transceiver	ISO11898-5	15	1 Mbps	4 kV (HBM)	SOIC-8
NCV7341	High Speed, Low Power CAN Transceiver	ISO11898-5	35	1 Mbps	8 kV	SOIC-14
NCV7441	Dual High Speed, Low Power CAN Transceiver	ISO11898-5	30	1 Mbps	8 kV	SOIC-14
AMIS-42700	Dual High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	4 kV	SOIC-20
NCV7351	High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	>12 kV	SOIC-8
AMIS-30660	High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	4 kV	SOIC-8
AMIS-30663	High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	4 kV	SOIC-8
AMIS-41682	Low Speed Fault Tolerant CAN Transceiver	ISO11898-3	60	250 kbps	6 kV (HBM)	SOIC-14
AMIS-41683	Low Speed Fault Tolerant CAN Transceiver	ISO11898-3	60	250 kbps	6 kV (HBM)	SOIC-14
NCV7356	Single Wire CAN Transceiver	J2411	60	40 kbps	4 kV (HBM)	SOIC-14

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * Sleepmode not featured/implemented. **Meets VeL10 test requirements.

FlexRay™ TRANSCEIVERS

Product	Description	Bus Speed (Baud)	FlexRay Standard	Host Interface	ESD Protection IEC61000-4-2 (CAN pins)	Package(s)
NCV7381	Clamp-30 FlexRay Transceiver	10 M	v3.0.1.	ERRN pin	>10 kV	SSOP-16
NCV7383	Clamp-15 FlexRay Transceiver	10 M	v3.0.1.	SPI	> 10 kV	TSSOP-14

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

SYSTEM BASIS CHIPS

Device	Description	Data Transmission Standard	I _Q Max (mA)	Number of Drivers	Number of Transceivers	V _{CC} Min (mA)	V _{CC} Max (mA)	Package(s)
NCV7420	System Basis Chip with LIN and Voltage Regulator (WAKE, INH)	LIN	50	0	1	5	26	SOIC-14
NCV7425	System Basis Chip with LIN and Voltage Regulator (WAKE, INH, RSTN)	LIN	150	0	1	5	28	SOIC-16W EP
NCV7430	System Basis Chip with LIN and RGB LED Driver	LIN	100	3	1	5.5	43	SOIC-14
NCV7462	System Basis Chip with LIN, CAN, 2 Voltage Regulators, and HS/LS Drivers	LIN; CAN	250	7	2	5	28	SSOP-36 EP
NCV7471	System Basis Chip with Dual LIN, CAN, Voltage Regulator, and Buck-Boost DC-DC	LIN; CAN	500	0	3	2.5	28	SSOP-36 EP

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

OPERATIONAL AMPLIFIERS

Device	Channels	V _S Min (V)	V _S Max (V)	I _Q /Channel (mA)	GBW (MHz)	V _{OS} Max (mV)	V _{OS} Drift (μV/°C)	I _B (nA)	CMRR (dB)	e _N (nV/√Hz)	Rail to Rail	Features	Package(s)
NCV2002	1	0.9 - 7	0.48	0.9	1.2	6	8	0.01	82	100	I/O	Shutdown, Ultra-Low VS	TSOP-6
NCV2003/32/34	1, 2, 4	1.7 - 5.5	0.3	7	8	4	2	0.001	70	20	Output	High GBW & Slew Rate	SOT-23-5, SOIC-8, Micro8, TSSOP-8, SOIC-14
NCV20062	2	1.8 - 5.5	0.14	3	0.45	3	1	0.001	80	20	I/O	Low I _Q & Rail-Rail I/O	Micro8, SOIC-8, TSSOP-8
NCV20072/4	2, 4	2.7 - 36	0.41	3	2.7	3	2	0.005	111	20	Output	36V Rail-to-rail Output	SOIC-8, Micro8, TSSOP-8, SOIC-14, TSSOP-14
NCV20082	2	1.8 - 5.5	0.05	1.2	1.2	3	1	0.001	80	30	I/O	Low I _Q & Rail-Rail I/O	Micro8, SOIC-8, TSSOP-8
NCV2902	4	3 - 32	1.2	1	—	7	7	90	70	—	—	Low Cost	SOIC-14, TSSOP-14
NCV2904	2	3 - 32	0.75	1	—	7	7	45	70	—	—	Low Cost	SOIC-8, Micro8
NCV33072/4	2, 4	3 - 44	1.6	4.5	10	3	10	100	97	32	—	44V VS Range	SOIC-8, TSSOP-14
NCV33078/9	2, 4	5 - 18	2.1	16	7	2	2	300	100	4.5	—	Wide GBW, Low V _{OS} & e _N	SOIC-8, SOIC-14
NCV33172	2, 4	3 - 44	0.18	1.8	2.1	6.5	10	20	90	32	—	Low I _Q & 44V VS range	SOIC-8, TSSOP-14
NCV33202/4	2, 4	1.8 - 12	0.9	2.2	1	6	2	80	90	20	I/O	High Output Current	SOIC-8, Micro8, SOIC-14, TSSOP-14
NCV33272/4A	2, 4	3 - 36	2.2	24	10	1	2	300	100	18	—	Wide GBW, VS range	SOIC-8, SOIC-14, TSSOP-14
NCV5652	2	3.3 - 13.2	6	0.35	—	5	2	200	80	—	—	500mA Output Current	UDFN-12
NCV7101	1	1.8 - 10	1	1	1.2	9	8	0.001	60	140	I/O	Ultra-Low I _B	SOT-23-5
NCV833	2	10 - 36	2	15	7	5	2	300	100	4.5	—	44V VS Range, Low e _N	SOIC-8
NCV952	2	2.7 - 26	0.9	3	1	8	2	35	80	25	I/O	26V Rail-to-rail I/O	TSSOP-8

NOTE: Contact ON Semiconductor for AEC and PAPP status.

COMPARATORS

Device	Channels	V _S Min (V)	V _S Max (V)	I _Q /Channel (μA)	t _{RESP} (H-L) (μs)	V _{OS} Max (mV)	Input Range (V)	I _{OUT} (mA)	Output Type	Features	Package(s)
NCV2393	2	2.7	16	6	0.8	—	Vee to Vdd-1.5	20	Open Drain	Ultra-Low I _Q	SOIC-8
NCV2200	1	0.85	6	10	0.5	5	Vee to Vdd	70	Complementary	Low I _Q , Fast t _{RESP}	SOT-23-5, SC-70
NCV2202	1	0.85	6	10	0.5	5	Vee to Vdd	70	Open Drain	Low I _Q , Fast t _{RESP}	SOT-23-5, SC-70
NCV331	1	2.7	5	40	0.6	9	Vee to Vdd-0.7	23	Open Drain	Low I _Q , Low Cost	SOT-23-5
NCV2903	2	2	36	200	1.5	7	Vee to Vdd-1.5	16	Open Collector	36 V, Low Cost	SOIC-8, Micro8
NCV2901	4	3	36	200	1.3	7	Vee to Vdd-1.5	16	Open Collector	36 V, Low Cost	SOIC-14, TSSOP-14, Bare Die
NCV391	1	2	36	500	0.5	9	Vee to Vdd-1.5	16	Open Collector	36 V, Fast t _{RESP}	SOT-23-5

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

EEPROMs

Interface Protocol	Device	Density	Organization	V _{CC} Min (V)	V _{CC} Max (V)	f _{clk} Max (MHz)	Package(s)
I2C	CAV24M01	1 Mb	128k x 8	2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C512	512 kb	64k x 8	2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C256	256 kb	32k x 8	2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C128	128 kb	16k x 8	2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C64	64 kb	8k x 8	2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C32	32 kb	4k x 8	2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C16	16 kb	2k x 8	2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C08	8 kb	1k x 8	2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C04	4 kb	512 x 8	2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C02	2 kb	256 x 8	2.5	5.5	0.4	SOIC-8, TSSOP-8
SPI	CAV25M01	1 Mb	128k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25512	512 kb	64k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25256	256 kb	32k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25128	128 kb	16k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25640	64 kb	8k x 8	2.5	5.5	10	SOIC-8, TSSOP-8, TDFN-8
	CAV25320	32 kb	4k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25160	16 kb	2k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25080	8 kb	1k x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25040	4 kb	512 x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25020	2 kb	256 x 8	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25010	1 kb	128 x 8	2.5	5.5	10	SOIC-8, TSSOP-8
Microwire	CAV93C86	16 kb	2k x 8 / 1k x 16	2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C76	8 kb	1k x 8 / 512 x 16	2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C66	4 kb	512 x 8 / 256 x 16	2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C56	2 kb	256 x 8 / 128 x 16	2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C46	1 kb	128 x 8 / 64 x 16	2.5	5.5	2	SOIC-8, TSSOP-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

SWITCHING REGULATORS & CONTROLLERS

Device	Buck	Boost	Controller	Synchronous	Output Current Max	Osc Freq	Output Voltage	Voltage Tolerance	Max Load Dump Voltage (V)	Sleepmode Current (Typ)	Low Iq Mode Typ Operating	Enable	Reset	Delay	Sync In	Sync Out	Power Good	TSD	UVLO	Short Circuit	Current Limit	Package(s)
NCV3163	✓	✓			3.4 A	Up to 300 kHz	Adj	±2 %	40	7 mA	—							✓	✓	✓	✓	DFN-18, SOIC-16W EP
NCV33163	✓	✓			3.4 A	Up to 250 kHz	Adj	±2 %	40	7 mA	—							✓	✓	✓	✓	SOIC-16W, PDIP-16
NCV891330	✓				3 A	2 MHz	5 V	±2 %	45	—	30 µA	✓	✓					✓	✓	✓	✓	SOIC-8 EP
NCV891130	✓				1 A	2 MHz	5 V	±2 %	45	—	30 µA	✓	✓					✓	✓	✓	✓	SOIC-8 EP
NCV890200	✓				2 A	2 MHz	Adj	±2 %	40	1 µA	—	✓						✓	✓	✓	✓	SOIC-8 EP
NCV890201	✓				2 A	2 MHz	Adj	±2 %	40	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890230	✓				2 A	2 MHz	Adj	±2 %	45	1 µA	—	✓						✓	✓	✓	✓	SOIC-8 EP
NCV890231	✓				2 A	2 MHz	Adj	±2 %	45	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890204	✓				2 A	2 MHz	Adj	±2 %	40	1 µA	—	✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV8855	PMU		✓	✓	2 A / Adj	170 kHz	Adj	±2 %	18	0.1 µA	—	✓			✓			✓	✓	✓	✓	QFN-40
NCV33063AV	✓	✓			1.5 A	100 kHz	—	±2 %	40	7 mA	—									✓	✓	SOIC-8
NCV3063	✓	✓			1.5 A	Up to 200 kHz	Adj	—	40	7 mA	—							✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3064	✓	✓			1.5 A	Up to 300 kHz	Adj	—	40	85 µA	—	✓						✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3065	✓	✓			1.5 A	Up to 250 kHz	40	—	40	7 mA	—							✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3066	✓	✓			1.5 A	Up to 300 kHz	Adj	—	40	85 µA	—	✓						✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV5171		✓			1.5 A	Up to 600 kHz	—	—	35	50 µA	—							✓	✓	✓	✓	SOIC-8
NCV5173		✓			1.5 A	Up to 600 kHz	—	—	35	50 µA	—							✓	✓	✓	✓	SOIC-8
CS51411	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
CS51412	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	—	✓						✓		✓	✓	SOIC-8, DFN-18
CS51413	✓				1 A	520 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
CS51414	✓				1 A	520 kHz	Adj	±2 %	40	1 µA	—	✓						✓		✓	✓	SOIC-8
NCP1546	✓				1 A	170 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
NCP1547	✓				1 A	340 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
NCV2575	✓				1 A	52 kHz	Adj, 5, 12	—	40	80 µA	—							✓	✓	✓	✓	D2PAK
NCV51411	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8842	✓				1 A	170 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8843	✓				1 A	340 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8881	PMU				1 A	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓	✓	✓	✓			✓	✓		✓	SOIC-16W EP
NCV890100	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓			✓	✓		✓	✓	✓	✓	SOIC-8 EP, DFN-8*
NCV890101	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890130	✓				1 A	2 MHz	Adj	±2 %	45	1 µA	—	✓						✓	✓	✓	✓	SOIC-8 EP, DFN-8*
NCV890131	✓				1 A	2 MHz	Adj	±2 %	45	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890103	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓	✓	✓	✓			✓	✓	✓	✓	DFN-10*
NCV890104	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV896530	Dual			✓	1 A	2.25 MHz	Adj	±2 %	6	1 µA	—	✓					✓	✓	✓		✓	DFN-10*
NCV2574	✓				0.5 A	52 kHz	Adj	—	40	80 µA	—							✓	✓	✓	✓	SOIC-16W
NCV8851B	✓		✓	✓	Adj	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓			✓			✓	✓		✓	TSSOP-20
NCV8853	✓		✓		Adj	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓			✓		✓	✓	✓	✓		SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * Wetside flank DFN/QFN: visual inspection is sufficient to guarantee proper soldering - no X-ray inspection needed

SWITCHING REGULATORS & CONTROLLERS

Device	Buck	Boost	Controller	Synchronous	Output Current Max	Osc Freq	Output Voltage	Voltage Tolerance	Max Load Dump Voltage (V)	Sleepmode Current (Typ)	Low Iq Mode Typ Operating	Enable	Reset	Delay	Sync In	Sync Out	Power Good	TSD	UVLO	Short Circuit	Current Limit	Package(s)
NCV3163	✓	✓			3.4 A	Up to 300 kHz	Adj	±2 %	40	7 mA	—							✓	✓	✓	✓	DFN-18, SOIC-16W EP
NCV33163	✓	✓			3.4 A	Up to 250 kHz	Adj	±2 %	40	7 mA	—							✓	✓	✓	✓	SOIC-16W, PDIP-16
NCV891330	✓				3 A	2 MHz	5 V	±2 %	45	—	30 µA	✓	✓					✓	✓	✓	✓	SOIC-8 EP
NCV891130	✓				1 A	2 MHz	5 V	±2 %	45	—	30 µA	✓	✓					✓	✓	✓	✓	SOIC-8 EP
NCV890200	✓				2 A	2 MHz	Adj	±2 %	40	1 µA	—	✓						✓	✓	✓	✓	SOIC-8 EP
NCV890201	✓				2 A	2 MHz	Adj	±2 %	40	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890230	✓				2 A	2 MHz	Adj	±2 %	45	1 µA	—	✓						✓	✓	✓	✓	SOIC-8 EP
NCV890231	✓				2 A	2 MHz	Adj	±2 %	45	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890204	✓				2 A	2 MHz	Adj	±2 %	40	1 µA	—	✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV8855	PMU		✓	✓	2 A / Adj	170 kHz	Adj	±2 %	18	0.1 µA	—	✓			✓			✓	✓	✓	✓	QFN-40
NCV33063AV	✓	✓			1.5 A	100 kHz	—	±2 %	40	7 mA	—									✓	✓	SOIC-8
NCV3063	✓	✓			1.5 A	Up to 200 kHz	Adj	—	40	7 mA	—							✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3064	✓	✓			1.5 A	Up to 300 kHz	Adj	—	40	85 µA	—	✓						✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3065	✓	✓			1.5 A	Up to 250 kHz	40	—	40	7 mA	—							✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3066	✓	✓			1.5 A	Up to 300 kHz	Adj	—	40	85 µA	—	✓						✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV5171		✓			1.5 A	Up to 600 kHz	—	—	35	50 µA	—							✓	✓	✓	✓	SOIC-8
NCV5173		✓			1.5 A	Up to 600 kHz	—	—	35	50 µA	—							✓	✓	✓	✓	SOIC-8
CS51411	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
CS51412	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	—	✓						✓		✓	✓	SOIC-8, DFN-18
CS51413	✓				1 A	520 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
CS51414	✓				1 A	520 kHz	Adj	±2 %	40	1 µA	—	✓						✓		✓	✓	SOIC-8
NCP1546	✓				1 A	170 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
NCP1547	✓				1 A	340 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, DFN-18
NCV2575	✓				1 A	52 kHz	Adj, 5, 12	—	40	80 µA	—							✓	✓	✓	✓	D2PAK
NCV51411	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8842	✓				1 A	170 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8843	✓				1 A	340 kHz	Adj	±2 %	40	1 µA	—	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8881	PMU				1 A	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓	✓	✓	✓			✓	✓		✓	SOIC-16W EP
NCV890100	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓			✓	✓		✓	✓	✓	✓	SOIC-8 EP, DFN-8*
NCV890101	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890130	✓				1 A	2 MHz	Adj	±2 %	45	1 µA	—	✓						✓	✓	✓	✓	SOIC-8 EP, DFN-8*
NCV890131	✓				1 A	2 MHz	Adj	±2 %	45	1 µA	—	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890103	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓	✓	✓	✓			✓	✓	✓	✓	DFN-10*
NCV890104	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	—	✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV896530	Dual			✓	1 A	2.25 MHz	Adj	±2 %	6	1 µA	—	✓						✓	✓	✓	✓	DFN-10*
NCV2574	✓				0.5 A	52 kHz	Adj	—	40	80 µA	—							✓	✓	✓	✓	SOIC-16W
NCV8851B	✓		✓	✓	Adj	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓			✓			✓	✓		✓	TSSOP-20
NCV8853	✓		✓		Adj	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓			✓			✓	✓	✓	✓	SOIC-8

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SWITCHING REGULATORS & CONTROLLERS

Device	Buck	Boost	Controller	Synchronous	Output Current Max	Osc Freq	Output Voltage	Voltage Tolerance	Max Load Dump Voltage (V)	Sleepmode Current (Typ)	Low Iq Mode Typ Operating	Enable	Reset	Delay	Sync In	Sync Out	Power Good	TSD	UVLO	Short Circuit	Current Limit	Package(s)	
NCV8852	✓		✓		Adj	500 kHz (Adj)	Adj	±2 %	40	1 µA	—	✓			✓				✓	✓	✓		SOIC-8
NCV887100		✓	✓		Adj	170 kHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓	✓	✓		SOIC-8
NCV887101		✓	✓		Adj	1 MHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓	✓	✓		SOIC-8
NCV887102		✓	✓		Adj	1 MHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓		✓		SOIC-8
NCV887103		✓	✓		Adj	340 kHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓	✓	✓		SOIC-8
NCV887104		✓	✓		Adj	340 kHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓	✓	✓		SOIC-8
NCV887000		✓	✓		Adj	50 kHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓	✓	✓		SOIC-8
NCV887001		✓	✓		Adj	100 kHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓	✓	✓		SOIC-8
NCV8873		✓	✓		Adj	1 MHz	Adj	±2 %	45	2 µA	—	✓			✓			✓	✓		✓		SOIC-8
NCV887600		✓	✓		Adj	170 kHz (Adj)	6.8 V	±1 %	45	—	11µA							✓		✓	✓		SOIC-8
NCV887601		✓	✓		Adj	170 kHz (Adj)	6.8 V	±1 %	45	—	11µA							✓		✓	✓		SOIC-8
NCV887700		✓	✓		Adj	170 kHz (Adj)	6.8 V	±1 %	45	—	11µA	✓						✓		✓	✓		SOIC-8
NCV887701		✓	✓		Adj	170 kHz (Adj)	6.8 V	±1 %	45	—	11µA	✓						✓		✓	✓		SOIC-8
NCV887720		✓	✓		Adj	170 kHz (Adj)	10 V	±1 %	45	—	11µA	✓						✓		✓	✓		SOIC-8
NCV887740		✓	✓		Adj	170 kHz (Adj)	12 V	±1 %	45	—	11µA	✓						✓		✓	✓		SOIC-8
NCV898031		✓	✓		Adj	2 MHz	Adj	±2 %	45	1 µA	—	✓						✓	✓		✓		SOIC-8
NCV3011	✓		✓	✓	—	400 kHz	—	±1 %	40	2.5 mA	—	✓			✓	✓	✓	✓	✓	✓	✓		TSSOP-14
NCV3012	✓		✓	✓	—	Up to 200 kHz	—	±1 %	40	2.5 mA	—	✓			✓	✓	✓	✓	✓	✓	✓		TSSOP-14
NCV3020	✓		✓	✓	—	300/600 kHz	—	±1.5 %	40	2.5 mA	—						✓	✓	✓	✓	✓		SOIC-8
NCV3030	✓		✓	✓	—	1.2/2.4 MHz	—	±1.5 %	40	2.5 mA	—						✓	✓	✓	✓	✓		SOIC-8
NCV3843B	✓	✓	✓		—	52 kHz	—	—	30	12 mA	—								✓		✓		SOIC-14, SOIC-8
NCV494	✓	✓	✓		—	200 kHz	—	±5 %	42	—	—								✓	✓	✓		SOIC-16
NCV8878		✓	✓		Adj	450 kHz	6.8 V	±2 %	45	12 µA	—	✓	✓	✓				✓	✓	✓	✓		SOIC-8
NCV890203	✓				2.0 A	2.0 MHz	Adj	±1.75 %	40	5 µA	—	✓	✓	✓				✓	✓	✓	✓		DFN-10*
NCV894530	✓			✓	1.2 A	2.1 MHz	Adj	±1.5 %	6	10 µA	—	✓			✓			✓	✓	✓	✓		DFN-10*
NCV894630	✓			✓	2.0 A	2.1 MHz	Adj	±1.5 %	6	5 µA	—	✓			✓			✓	✓	✓	✓		DFN-10*
NCV97310	PMU			✓	3.0 A	2 MHz	Fixed, Adj		45	6 µA	—	✓	✓	✓			✓	✓	✓	✓	✓		QFN-32*
NCV97311	PMU			✓	3.0 A	2 MHz	Fixed, Adj		45	7 µA	—	✓	✓	✓			✓	✓	✓	✓	✓		QFN-32*
NCV8872		✓	✓		Adj	675 kHz	Adj	±2 %	40	8 µA	—	✓		✓	✓			✓	✓	✓	✓		SOIC-8
NCV890430	✓			✓	0.6 A	2 MHz	2.5 V, 3.3 V, 5.0 V	±2 %	45	5 µA	—	✓	✓					✓	✓	✓	✓		DFN-8*
NCV891234	✓				2.0 A	2 MHz	3.3 V, 5.0 V	±2 %	45	9 µA	—	✓	✓		✓	✓		✓	✓	✓	✓		DFN-12*
NCV891334	✓				3.0 A	2 MHz	3.3 V, 5.0 V	±2 %	45	9 µA	—	✓	✓		✓	✓		✓	✓	✓	✓		DFN-12*

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SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (✓ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV8715	1.2, 1.5, 1.8, 2.5, 3.0, 3.3, 5	±2	50 mA	0.35 V	—	3.4 µA (100 µA)							✓	✓		24	SC-70, XDFN
NCV8716	1.2, 1.5, 1.8, 2.5, 3.0, 3.3, 5	±2	80 mA	0.5 V	—	3.4 µA (100 µA)							✓	✓		24	XDFN
NCV562	3.3	±2	80 mA	0.25 V	1 µA	2.5 µA (100 µA)	✓						✓	✓		6	SC-70
NCV563	1.5, 3.3	±2	80 mA	0.25 V	—	2.5 µA (100 µA)							✓	✓		6	SC-70
NCV553	5	±3	80 mA	0.8 V	—	6 µA (1 mA)							✓	✓		12	SC-82
CS8101	5	±2	100 mA	0.6 V	50 µA	140 µA (100 µA)	✓	✓					✓	✓	✓	60	SOIC-8, SOIC-20W
NCV317L	Adj	±4	100 mA	1.9 V (Typ)	—	—							✓	✓		40	SOIC-8, TO-92
NCV2931	Adj, 5	±5	100 mA	0.6 V	1 mA	1 mA (10 mA)	✓						✓	✓	✓	60	SOIC-8, DPAK-3, D2PAK-3
NCV2931A	Adj, 5	±3.8	100 mA	0.6 V	1 mA	1 mA (10 mA)	✓						✓	✓	✓	60	SOIC-8, SOT-223, DPAK-3
NCV2951	Adj, 5	±2.4	100 mA	0.45 V	—	120 µA (100 µA)	✓	✓					✓	✓		32	SOIC-8
NCV2951A	Adj, 3.3, 5	±1.5	100 mA	0.45 V	—	120 µA (100 µA)	✓	✓					✓	✓		32	SOIC-8
NCV4949A	5	±2	100 mA	0.5 V	—	260 µA (300 µA)		✓	✓	✓			✓	✓		40	SOIC-8, SOIC-8 EP, SOIC-20W
NCV612	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.1, 3.3, 5	±3	100 mA	0.3 V	1 µA	90 µA (1 mA)	✓						✓	✓		6	SC-70
NCV662	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 5	±4	100 mA	0.3 V	1 µA	6 µA (1 mA)	✓						✓	✓		6	SC-82
NCV663	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 5	±4	100 mA	0.3 V	—	6 µA (1 mA)							✓	✓		6	SC-82
NCV78LxxA	5, 8, 12, 15, 24	±4	100 mA	1.7 V (Typ)	—	—							✓	✓		30	SOIC-8, TO-92
NCV551	1.4, 1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.1, 3.2, 3.3, 5	±3	150 mA	0.22 V	1 µA	8 µA (1 mA)	✓						✓	✓		12	TSOP-5
NCV4264-2	3.3, 5	±2	150 mA	0.5 V	—	70 µA (100 µA)							✓	✓		45	SOT-223, SOIC-8
NCV4264-2C	3.3, 5	±2	150 mA	0.5 V	—	70 µA (100 µA)							✓	✓		45	SOT-223
NCV4266	3.3, 5	±2	150 mA	0.5 V	10 µA	200 µA (1 mA)	✓						✓	✓		45	SOT-223
NCV4266-2C	3.3, 5	±2	150 mA	0.5 V	1 µA	70 µA (100 µA)	✓						✓	✓		45	SOT-223
NCV4269A	3.3, 5	±2	150 mA	0.5 V	—	250 µA (1 mA)		✓✓	✓	✓			✓	✓		60	SOIC-8, SOIC-8 EP, SOIC-14, SOIC-20W
NCV4269C	5	±2	150 mA	0.5 V	—	250 µA (1 mA)		✓✓	✓	✓			✓	✓		60	SOIC-14
NCV4279A	5	±2	150 mA	0.5 V	—	250 µA (1 mA)		✓✓	✓	✓			✓	✓		60	SOIC-8, SOIC-14
NCV4279C	5	±2	150 mA	0.5 V	—	250 µA (1 mA)		✓✓	✓	✓			✓	✓		60	SOIC-14
NCV4299	3.3, 5	±2	150 mA	0.5 V	1 µA	105 µA (1 mA)	✓	✓✓	✓	✓			✓	✓		60	SOIC-8, SOIC-14
NCV4299A	3.3, 5	±2	150 mA	0.5 V	1 µA	95 µA (100 µA)	✓	✓✓	✓	✓			✓	✓		60	SOIC-14, TSSOP-14 EP
NCV571	0.8, 0.9, 1.0, 1.2	±4	150 mA	0.45 V	1 µA	8 µA (150 mA)	✓						✓	✓	✓		TSOP-5, DFN-6
NCV8170	1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3	±2	150 mA	0.25 V	0.5 µA	0.9 µA (0 mA)	✓						✓	✓		6	XDFN-4, SOT-563
NCV8501	Adj, 2.5, 3.3, 5, 8, 10	±2	150 mA	0.6 V	30 µA	75 µA (100 µA)	✓	✓	✓	✓			✓	✓		60	SOIC-8, SOIC-16 EP
NCV8502	Adj, 2.5, 3.3, 5, 8, 10	±2	150 mA	0.6 V	—	75 µA (100 µA)		✓	✓	✓			✓	✓		60	SOIC-8, SOIC-16 EP
NCV8560	Adj., 1.3, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.5, 5	±2	150 mA	0.125 V	1 µA	180 µA (150 mA)	✓						✓	✓		6	DFN-6, TSOP-5
NCV8660B	3.3, 5	±2	150 mA	0.6 V	—	40 µA (150 mA)		✓	✓				✓	✓		40	DPAK-5, SOIC-8
NCV8664	3.3, 5	±2	150 mA	0.6 V	—	30 µA (100 µA)							✓	✓		45	SOIC-8, SOT-223, DPAK-3

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. ** See data sheet for details.

SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (✓ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV8664C	3.3, 5	±2	150 mA	0.6 V	—	30 µA (100 µA)							✓	✓		45	SOT-223
NCV8665	5	±2	150 mA	0.6 V	—	40 µA (100 µA)		✓	✓				✓	✓		45	D2PAK-5, SOIC-8
NCV8667	5	±2	150 mA	0.6 V	1 µA	50 µA (150 mA)	✓	✓	✓	✓			✓	✓		45	SOIC-8, SOIC-14
NCV8668	3.3, 5	±2	150 mA	0.6 V	1 µA	44 µA (100 µA)	✓	✓	✓		✓		✓	✓		45	SOIC-8, SOIC-8 EP, SOIC-14
NCV8669	5	±2	150 mA	0.6 V	—	50 µA (150 mA)		✓	✓	✓			✓	✓		45	SOIC-14
NCV8768	5	±1.5, ±2	150 mA	0.6 V	1 µA	36 µA (100 µA)	✓	✓	✓		✓		✓	✓		45	SOIC-14
NCV8769	5	±2	150 mA	0.6 V	—	33 µA (150 mA)		✓	✓	✓			✓	✓		45	SOIC-14
NCV4263-2C	5	±2	200 mA	0.5 V	10 µA	1.3 mA (0 mA)	✓	✓✓	✓		✓		✓	✓		45	SOIC-8 EP, SOIC-14
NCV8570B	1.8, 2.5, 2.8, 3.0, 3.3	±2.5	200 mA	0.23 V	1 µA	110 µA (1 mA)	✓						✓	✓		6	DFN-6, TSOP-5
NCV8752	1.8, 2.8, 3, 3.3	±2	200 mA	0.2 V	1 µA	12 µA (0 mA)	✓	✓	✓				✓	✓		6	XDFN-6, TSOP-5
NCV8702	1.8, 2.8, 3, 3.3	±2	200 mA	0.2 V	1 µA	16 µA (0 mA)	✓						✓	✓		6	XDFN6, TSOP-5
NCV8508B	3.3, 5	±3	250 mA	0.9 V	—	150 µA (150 mA)		✓	✓		✓	✓	✓	✓		60	SOIC-8 EP, D2PAK-7
NCV8518B	5	±2	250 mA	0.75 V	1 µA	150 µA (150 mA)	✓	✓	✓		✓	✓	✓	✓		45	SOIC-8 EP, SOIC-16 EP
NCV33275	3.3, 5	±2	300 mA	0.5 V	—	200 µA (0 mA)							✓	✓		13	SOT-223
NCV33375	1.8	±2	300 mA	0.5 V	4 µA	200 µA (0 mA)	✓						✓	✓		13	SOT-223
NCV8603	3.3	±2	300 mA	0.23 V	1 µA	145 µA (1 mA)	✓						✓	✓		6	TSOP-5
NCV8703	1.8, 2.8, 3, 3.3	±2	300 mA	0.3 V	2 µA	20 µA (0 mA)	✓						✓	✓		6	XDFN6, TSOP-5
NCV8674	5	±2	350 mA	0.6 V	—	38 µA (100 µA)							✓	✓		45	D2PAK-3
NCV8675	3.3, 5	±2, ±2.5	350 mA	0.6 V	—	50 µA (100 µA)		✓	✓				✓	✓		45	DPAK-5, D2PAK-5
NCV8770	5	±1.5, ±2	350 mA	0.875 V	—	28 µA (350 mA)		✓	✓				✓	✓		45	D2PAK-5, DPAK-5
NCV8772	3.3, 5	±1.5	350 mA	0.875 V	1 µA	30 µA (350 mA)	✓	✓**	✓				✓	✓		45	D2PAK-7, D2PAK-5, DPAK-5
NCV8774	3.3, 5	±1.5, ±2	350 mA	0.875 V	—	23 µA (350 mA)							✓	✓		45	DPAK-3
NCV8503	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	1 µA	350 µA (100 µA)	✓	✓✓	✓	✓			✓	✓		60	SOIC-16 EP
NCV8504	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	—	150 µA (100 µA)		✓✓	✓	✓			✓	✓		60	SOIC-16 EP
NCV8505	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	1 µA	350 µA (100 µA)	✓	✓	✓				✓	✓		60	D2PAK-7
NCV8506	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	—	150 µA (100 µA)		✓	✓				✓	✓		60	D2PAK-7
NCV4274A	2.5, 3.3, 5, 8.5	±2	400 mA	0.5 V	—	250 µA (1 mA)							✓	✓		60	SOT-223, DPAK-3, D2PAK-3
NCV4274C	3.3, 5	±2	400 mA	0.5 V	—	250 µA (1 mA)							✓	✓		60	DPAK-3
NCV4276B	Adj, 3.3, 5	±2	400 mA	0.5 V	10 µA	220 µA (1 mA)	✓						✓	✓		45	DPAK-5, D2PAK-5
NCV4276C	Adj, 3.3, 5	±2	400 mA	0.5 V	10 µA	220 µA (1 mA)	✓						✓	✓		45	DPAK-5, D2PAK-5
NCV4275A	3.3, 5	±2	450 mA	0.5 V	—	200 µA (1 mA)		✓	✓				✓	✓		45	DPAK-5, D2PAK-5
NCV4275C	3.3, 5	±2	450 mA	0.5 V	—	200 µA (1 mA)		✓	✓				✓	✓		45	DPAK-5, D2PAK-5
NCV4290	5	±2	450 mA	0.5 V	—	230 µA (1 mA)		✓	✓				✓	✓		45	DPAK-5, D2PAK-5
NCV317M	Adj	±4	500 mA	2.2 V (Typ)	—	—							✓	✓		40	DPAK-3
NCV5500	Adj, 1.5, 3.3, 5	±4.9	500 mA	0.7 V	50 µA	500 µA (100 µA)	✓						✓	✓		18	SOIC-8, DPAK-5
NCV5501	1.5, 3.3, 5	±4.9	500 mA	0.7 V	—	500 µA (100 µA)							✓	✓		18	DPAK-3
NCV78Mxx	5, 8, 12, 15	±4	500 mA	**	—	**							✓	✓		35	DPAK-3, TO-220
NCV78MxxA	5	±4	500 mA	**	—	**							✓	✓		35	DPAK-3
NCV8141	5	±3	500 mA	1.5 V	50 µA	**	✓	✓	✓		✓		✓	✓	✓	60	D2PAK-7

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. ** See data sheet for details.

SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (✓ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV8535	Adj, 1.5, 1.8, 2.5, 2.8, 2.85, 3.0, 3.3, 5	±1.5	500 mA	0.34 V	1 µA	190 µA (100 µA)	✓					✓	✓	✓	✓	16	DFN-10
NCV8537	Adj, 1.8, 2.5, 3.3, 5.0	±1.5	500 mA	0.34 V	1 µA	190 µA (100 µA)	✓			✓		✓	✓	✓	✓	16	DFN-10
NCV8605	Adj, 1.5, 1.8, 2.5, 2.8, 3, 3.3, 5	±1.5	500 mA	0.2 V	—	145 µA (100 µA)						✓	✓	✓	✓	6	DFN-6
NCV8606	Adj, 1.5, 1.8, 2.5, 2.8, 3, 3.3, 5	±1.5	500 mA	0.2 V	1 µA	145 µA (100 µA)	✓					✓	✓	✓	✓	6	DFN-6
NCV8705	1.8, 2.8, 3, 3.3		500 mA	0.2 V	1 µA	12 µA (0 mA)	✓					✓	✓	✓	✓	6	WDFN-6
CS8126	5	±3	750 mA	0.6 V	—	—		✓	✓			✓	✓	✓	✓	60	D2PAK-7
NCV33269	Adj, 3.3, 5, 12	±2	800 mA	1.35 V	—	—						✓	✓	✓	✓	20	DPAK-3
NCV78xxA	5, 12	±4	1 A	**	—	—						✓	✓	✓	✓	35	D2PAK-3, TO-220
NCV78xx	5, 8, 12, 15	5%	1 A	**	—	—						✓	✓	✓	✓	35	DPAK-3, D2PAK-3, TO-220
NCV5661	Adj, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3	±2	1 A	1.3 V	300 µA	—	✓	✓				✓	✓	✓	✓	18	DPAK-5, DFN-6
NCV1117	Adj, 1.5, 1.8, 2, 2.5, 3.3, 5, 12	±2	1 A	1.2 V	—	—						✓	✓	✓	✓	20	DPAK-3, SOT-223
NCV317	Adj	±4	1.5 A	2.25 V (Typ)	—	—						✓	✓	✓	✓	40	D2PAK-3, TO-220
NCV565	Adj	±3	1.5 A	1.3 V	—	—						✓	✓	✓	✓	18	D2PAK-5
NCV57152	Adj	±2	1.5 A	0.52 V	5 µA	—	✓					✓	✓	✓	✓	18	D2PAK-5, DFN8
NCV59150	Adj, 1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±1.5	1.5 A	0.5 V	5 µA	—	✓			✓		✓	✓	✓	✓	18	DFN-8, D2PAK-3, D2PAK-5
NCV59151	1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±1.5	1.5 A	0.5 V	5 µA	—	✓	✓				✓	✓	✓	✓	18	DFN-8, D2PAK-3, D2PAK-5
NCV59152	Adj	±1.5	1.5 A	0.5 V	5 µA	—	✓					✓	✓	✓	✓	18	DFN-8, D2PAK-3, D2PAK-5
NCV5662	Adj, 1.5	±2	2 A	1.3 V	300 µA	—	✓	✓				✓	✓	✓	✓	18	D2PAK-5
NCV57302	Adj	±2.5	3 A	0.52 V	5 µA	—	✓					✓	✓	✓	✓	18	D2PAK-5
NCV59300	1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±2	3 A	0.5 V	5 µA	—	✓					✓	✓	✓	✓	18	D2PAK-5, D2PAK-3
NCV59301	1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±2	3 A	0.5 V	5 µA	—	✓	✓				✓	✓	✓	✓	18	D2PAK-5
NCV59302	Adj	±2	3 A	0.5 V	5 µA	—	✓					✓	✓	✓	✓	18	D2PAK-5
NCV5663	Adj, 1.5	±2	3 A	1.3 V	300 µA	—	✓	✓				✓	✓	✓	✓	18	D2PAK-5

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. ** See data sheet for details.

DDR VOLTAGE REGULATORS

Device	Output Current (A)	Vcc Range (V)	Applications	Package(s)
NCV51190	±1.5 A	1.5 - 2.5	DDR-2, DDR-3, DDR-4	DFN-8
NCV51198	±1.5 A	1.5 - 2.5	DDR, DDR-2, DDR-3	SOIC-8 EP
NCV51199	±2 A	1.5 - 5.5	DDR-2, DDR-3	SOIC-8 EP
NCV51510	±3 A	1.1 - 3.6	DDR, DDR-2, DDR-3, DDR-4	DFN-10
NCV51200	±3 A	1.5 - 3.5	DDR, DDR-2, DDR-3, DDR-4	DFN-10

NOTE: Contact ON Semiconductor for AEC and PAPP status.

LINEAR VOLTAGE REFERENCES

Device	Type	V _(BR) Typ (V)	Tolerance (%)	I _Q Typ (mA)	I _R Min (mA)	V _F Max (V)	Package(s)
SC431AVSN	Adjustable	2.5	1	0.04	0.04	36	SOT-23-3
NCV431A	Adjustable	2.495	1	0.5	1	36	Micro8; SOIC-8
NCV431B	Adjustable	2.495	0.4	0.5	1	36	Micro8; SOIC-8
NCV1009	Fixed	2.5	0.2	—	0.4	—	SOIC-8
NCP51460	—	3.3	1	0.14	20	30	SOT-23-3

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

DUAL AND MULTIPLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current (mA)	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Reset	Delay	Sequenced	Automatic Switchover (ASO)	Early Warning Flag/Monitor	Current Limit	Overvoltage Shutdown	Overtemperature	Peak Transient (V)	Package(s)
NCV8509	5.0, 5.0, 3.3 2.6, 2.5, 1.8	±2 ±2	100 115	0.6 V —	—	175 µA (200 µA)	✓	✓	✓			✓		✓	50	SOIC-16 ePad
NCV5504	Adj 3.3	±2 ±2	250 250	0.4 V 0.4 V	—	450 µA (0 µA)						✓		✓	18	DPAK-5
NCV8154	1.8, 3.0, 3.3 1.8, 2.8, 3.0, 3.3	±3 ±3	300 300	0.29 V 0.29 V	1 µA	200 µA (0 mA)	✓					✓		✓	6	DFN-10
NCV8614B	5 3.3 Adj	±2 ±2 ±2	100 300 400	0.5 V 1.5 V 2.5 V	0.5 µA	50 µA (70 µA)	✓	✓		✓	✓	✓	✓	✓	45	DFN-20

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

TRACKING REGULATORS

Device	Output Voltage	Tolerance	Output Current	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset	Current Limit	Overvoltage Shutdown	Overtemperature	Peak Transient	Package(s)
NCV8184	Tracking	±3 mV	70 mA	0.6 V	20 µA	70 µA (100 µA)	✓		✓		✓	45 V	DPAK-5, SOIC-8, SOIC-8 ePad
CS8182	Tracking	±10 mV	200 mA	0.6 V	55 µA	150 µA (100 µA)	✓		✓		✓	45 V	DPAK-5, D2PAK-5, SOIC-8 Fused
CS8183	Tracking Tracking	±10 mV ±10 mV	200 mA** 200 mA**	0.6 V 0.6 V	55 µA	150 µA (100 µA)	✓		✓		✓	45 V	SOIC-20 Fused
CS8361	Tracking 5 V	±25 mV ±2 %	250 mA 100 mA	0.7 V 0.6 V	200 µA	200 µA (300 µA)	✓	✓	✓	✓	✓	60 V	D2PAK-7, SOIC-16 Fused
CS8363	Tracking 3.3 V	±25 mV -2 % / +2.4 %	250 mA 100 mA	0.7 V 1.05 V	200 µA	200 µA (300 µA)	✓	✓	✓	✓	✓	60 V	D2PAK-7

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. ** See data sheet for details.

CURRENT SENSE REGULATORS

Device	Output Voltage	Tolerance	Output Current (mA)	Max Dropout (V)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Current Sense Output	Current Limit	Overtemperature	Peak Transient (V)	Package(s)
NCV47551	Adj	±3	20	0.5	10 µA	380 µA (100 µA)	✓	✓	✓	✓	45	SOIC-8
NCV47411	Adj Adj	±3 ±3	100 100	0.55	10 µA	370 µA (500 µA)	✓	✓	✓	✓	45	TSSOP-14 ePad
NCV47700	Adj	±6	350	0.5	10 µA	230 µA (1 mA)	✓	✓	✓	✓	45	SOIC-8, SOIC-8 EP
NCV47701	Adj	±3	350	0.5	10 µA	230 µA (1 mA)	✓	✓	✓	✓	45	SOIC-8, SOIC-8 EP
NCV47710	Adj	±6	350	0.5	10 µA	230 µA (1 mA)	✓	✓	✓	✓	45	SOIC-8, SOIC-8 EP
NCV47711	Adj	±3	350	0.5	10 µA	230 µA (1 mA)	✓	✓	✓	✓	45	SOIC-8, SOIC-8 EP

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

MOSFETs

Device	Configuration	Maximum Rating					V _{GS(th)} Max (V)	Q _G @ 10 V Typ (nC)	C _{iss} Typ (pF)	Package(s)				
		V _{DS} (V)	I _D (A)	V _{GS} (V)	R _{DS(on)} (mΩ)									
					V _{GS} = 10 V	V _{GS} = 4.5 V								
NVJD4401N	Dual N Channel	20	0.63	12	—	375	1.5	—	33	SC-70-6				
NVMD4N03	Dual N Channel	30	4	20	60	80	3	8	285	SOIC-8				
NVTJD4001N	Dual N Channel	30	0.25	20	—	1500	1.5	—	20	SC-70-6				
NVLJD4007NZ	Dual N Channel	30	0.245	20	—	7000	1.5	—	12.2	WDFN-6				
NVDD5894NL	Dual N Channel	40	64	20	10	14.5	2.5	41	2103	DPAK				
NVMFD5852NL	Dual N Channel	40	40	20	6.9	12	2.4	36	1800	SO-8FL				
NVMFD5853NL	Dual N Channel	40	34	20	10	15	2.4	23	1100	SO-8FL				
NVMFD5853NL	Dual N Channel	40	34	20	10	15	2.4	23	1100	SO-8FL				
NVMD6N04	Dual N Channel	40	5.8	20	34	43	3	20	723	SOIC-8				
NVMFD5873NL	Dual N Channel	60	58	20	13	16.5	2.5	30.5	1560	SO-8FL				
NVMFD5483NL	Dual N Channel	60	24	20	36	45	2.5	23.4	668	SO-8FL				
NVMFD5485NL	Dual N Channel	60	20	20	44	60	2.5	20	560	SO-8FL				
NVMFD5877NL	Dual N Channel	60	17	20	39	60	3	11	540	SO-8FL				
NVMFD5489NL	Dual N Channel	60	12	20	65	79	2.5	12.4	330	SO-8FL				
MVSF2N02EL	Single N Channel	20	2.8	8	—	85	1	3.5	150	SOT-23				
NVA4001N	Single N Channel	20	0.238	10	—	3000	1.5	—	11.5	SC-75				
NVR4501N	Single N Channel	20	3.2	12	—	80	1.2	—	200	SOT-23				
MVGSF1N02L	Single N Channel	20	0.75	20	90	130	2.4	—	125	SOT-23				
MVMBF0201NL	Single N Channel	20	0.3	20	1000	1400	2.4	—	45	SOT-23				
NVF2201N	Single N Channel	20	0.3	20	1000	1400	2.4	—	45	SC-70				
STD110N02R	Single N Channel	24	110	20	4.6	6.2	2	—	2710	DPAK				
NVJS4405N	Single N Channel	25	1.2	8	—	350	1.5	—	49	SC-70-6				
NVS4409N	Single N Channel	25	0.75	8	—	350	1.5	—	49	SC-70				
NVD4856N	Single N Channel	25	89	20	4.7	6.8	2.5	38	2241	DPAK				
NVD14N03R	Single N Channel	25	14	20	95	130	2	—	115	DPAK				
NVTA7002N	Single N Channel	30	0.154	10	—	7000	1.5	—	11.5	SC-75				
NVMFS4C01N	Single N Channel	30	299	20	0.9	1.2	2.2	65	9200	SO-8FL				
NVMFS4C03N	Single N Channel	30	134	20	2.3	3.3	2.2	24	3350	SO-8FL				
NVD4804N	Single N Channel	30	117	20	4	5.5	2.5	73	4490	DPAK				
NVMFS4C05N	Single N Channel	30	116	20	3.4	5	2.2	30	1972	SO-8FL				
NVTFS4C05N	Single N Channel	30	102	20	3.6	5.1	2.2	31	1968	μ8FL				
NVMFS4841N	Single N Channel	30	89	20	7	11.4	2.5	—	1436	SO-8FL				
NVD4805N	Single N Channel	30	88	20	5	7.4	2.5	48	2865	DPAK				
NVD4806N	Single N Channel	30	76	20	6	9.4	2.5	37	2142	DPAK				
NVTFS4C06N	Single N Channel	30	71	20	4.2	6.1	2.2	26	1683	μ8FL				
NVD4808N	Single N Channel	30	63	20	8	12.4	2.5	26	1538	DPAK				
NVD4809N	Single N Channel	30	58	20	9	14	2.5	25	1456	DPAK				
NVTFS4C08N	Single N Channel	30	55	20	5.9	9	2.2	18.2	1113	μ8FL				
NVD4810N	Single N Channel	30	54	20	10	—	2.5	21	1165	DPAK				
NVTFS4C10N	Single N Channel	30	47	20	7.4	11	2.2	19.2	993	μ8FL				
NVTFS4824N	Single N Channel	30	46	20	4.7	7.5	2.5	29	1740	μ8FL				
NVTFS4C13N	Single N Channel	30	40	20	9.4	14	2.1	15.2	770	μ8FL				
NVD4813NH	Single N Channel	30	40	20	13	25.9	2.5	18.2	940	DPAK				

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 3Q16. ** Pending 4Q16.

MOSFETs

Device	Configuration	Maximum Rating					V _{GS(th)} Max (V)	Q _G @ 10 V Typ (nC)	C _{iss} Typ (pF)	Package(s)				
		V _{DS} (V)	I _D (A)	V _{GS} (V)	R _{DS(on)} (mΩ)									
					V _{GS} = 10 V	V _{GS} = 4.5 V								
NVTFS4823N	Single N Channel	30	30	20	10.5	17.5	2.5	12	750	μ8FL				
NVTFS4C25N	Single N Channel	30	22.1	20	17	26.5	2.2	10.3	500	μ8FL				
NVD20N03L27	Single N Channel	30	20	20	—	27	2	13.8	1005	DPAK				
NVTR4503N	Single N Channel	30	2	20	110	140	3	3.6	135	SOT-23				
MVGSF1N03L	Single N Channel	30	1.6	20	100	145	2.4	—	140	SOT-23				
NVR4003N	Single N Channel	30	0.56	20	—	1500	1.4	—	21	SOT-23				
NVS4001N	Single N Channel	30	0.27	20	—	1500	1.5	—	20	SC-70				
NVD5806N	Single N Channel	40	33	2.5	19	26	2.5	17	860	DPAK				
NVMFS5830NL	Single N Channel	40	185	20	2.3	3.6	2.4	113	5880	SO-8FL				
NVB5404N	Single N Channel	40	167	20	4.5	7	3.5	125	4300	D2PAK				
NVD5890NL	Single N Channel	40	123	20	3.7	5.5	2.5	74	4760	DPAK				
NVD5890N	Single N Channel	40	123	20	3.7	—	3.5	74	4975	DPAK				
NVMFS5832NL	Single N Channel	40	120	20	4.2	6.5	2.4	51	2700	SO-8FL				
NVD5802N	Single N Channel	40	101	20	4.4	7.8	3.5	75	5300	DPAK				
NVD5803N	Single N Channel	40	85	20	5.7	—	3.5	51	3220	DPAK				
NVMFS5834NL	Single N Channel	40	75	20	9.3	13.6	3	24	1231	SO-8FL				
STD5406N	Single N Channel	40	70	20	10	17	3.5	45	1375	DPAK				
NTDV5804N	Single N Channel	40	69	20	8.5	12	3.5	45	2460	DPAK				
NTDV5805N	Single N Channel	40	51	20	9.5	16	3.5	33	1725	DPAK				
NVTFS5811NL	Single N Channel	40	40	20	6.7	10	2.2	30	1570	μ8FL				
STD5407N	Single N Channel	40	38	20	26	40	3.5	20	615	DPAK				
NVD5807N	Single N Channel	40	23	20	31	37	2.5	12.6	603	DPAK				
BVSS138L	Single N Channel	50	0.2	20	—	5600	1.5	—	40	SOT-23				
NTBV45N06L	Single N Channel	60	45	15	—	28	2	23	1212	D2PAK				
STD24N06L	Single N Channel	60	24	15	—	45	2	—	814	DPAK				
NTDV20N06L	Single N Channel	60	20	15	—	48	2	—	707	DPAK				
NTDV3055L104	Single N Channel	60	12	15	—	104	2	—	316	DPAK				
NVD3055L170	Single N Channel	60	9	15	—	153	2	—	195	DPAK				
NVF3055L108	Single N Channel	60	3	15	—	120	2	—	313	SOT-223				
NVMFS5C604NL	Single N Channel	60	289	20	1.2	1.7	2	119	8200	SO-8FL				
NVB5860NL	Single N Channel	60	220	20	3	3.6	3	220	13216	D2PAK				
NVB5860N	Single N Channel	60	220	20	3	—	4	180	10760	D2PAK				
NVMFS5C612NL	Single N Channel	60	219	20	1.8	2.3	2	91	6200	SO-8FL				
NVB5426N	Single N Channel	60	120	20	6	—	4	150	5800	D2PAK				
NVD5862N	Single N Channel	60	98	20	5.7	—	4	82	5050	DPAK				
NVMFS5C646NL	Single N Channel	60	92	20	4.7	6.25	2	29	2000	SO-8FL				
NVD5863NL	Single N Channel	60	82	20	7.1	9	3	70	3850	DPAK				
NVMFS5844NL	Single N Channel	60	61	20	12	16	2.3	30	1460	SO-8FL				
NVB60N06	Single N Channel	60	60	20	14	—	4	62	2300	D2PAK				
NVD5484NL	Single N Channel	60	54	20	17	23	2.5	48	1410	DPAK				
NTBV45N06	Single N Channel	60	45	20	26	—	4	33	1224	D2PAK				
NVMFS5885NL	Single N Channel	60	39	20	15	21	2.5	21	1340	SO-8FL				
NVD5865NL	Single N Channel	60	38	20	16	19	2	29	1400	DPAK				

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 3Q16. ** Pending 4Q16.

MOSFETs

Device	Configuration	Maximum Rating					V _{GS(th)} Max (V)	Q _G @ 10 V Typ (nC)	C _{iss} Typ (pF)	Package(s)				
		V _{DS} (V)	I _D (A)	V _{GS} (V)	R _{DS(on)} (mΩ)									
					V _{GS} = 10 V	V _{GS} = 4.5 V								
NVTF5820NL	Single N Channel	60	29	20	11.5	15	2.3	28	1462	μ8FL				
NVMF5826NL	Single N Channel	60	26	20	24	32	2.5	17	850	SO-8FL				
NVD5414N	Single N Channel	60	24	20	28.4	—	4	25	800	DPAK				
NVD5867NL	Single N Channel	60	22	20	39	50	2.5	15	675	DPAK				
NVTF5826NL	Single N Channel	60	20	20	24	32	2.5	16	850	μ8FL				
NTDV20N06	Single N Channel	60	20	20	46	—	4	21.2	725	DPAK				
NVD5490NL	Single N Channel	60	17	20	64	85	2.5	14	365	DPAK				
NVD3055-094	Single N Channel	60	12	20	94	—	4	10.9	323	DPAK				
NVD3055-150	Single N Channel	60	9	20	150	—	4	—	200	DPAK				
NVF3055-100	Single N Channel	60	3	20	110	—	4	10.6	324	SOT-223				
NVR5198NL	Single N Channel	60	2.2	20	155	205	2.5	5.1	102	SOT-23				
2V7002K	Single N Channel	60	0.38	20	1600	2500	2.3	0.7	24.5	SOT-23				
2V7002W	Single N Channel	60	0.31	20	1600	2500	2.5	0.7	24.5	SC-70				
2V7002L	Single N Channel	60	0.115	20	7500	—	2.5	—	50	SOT-23				
NVD6820NL	Single N Channel	90	50	20	17	20.5	2.5	67	4200	DPAK				
NVD6828NL	Single N Channel	90	41	20	20	25	2.5	61	2900	DPAK				
NVB6411AN	Single N Channel	100	77	20	14	—	4	100	3700	D2PAK				
NVB6410AN	Single N Channel	100	76	20	13	—	4	120	4500	D2PAK				
NVB6412AN	Single N Channel	100	58	20	18.2	—	4	73	2700	D2PAK				
NVB6413AN	Single N Channel	100	42	20	28	—	4	51	1800	D2PAK				
NVD6824NL	Single N Channel	100	41	20	20	23	2.5	66	3468	DPAK				
NVD6414AN	Single N Channel	100	32	20	37	—	4	40	1450	DPAK				
NVD6415ANL	Single N Channel	100	23	20	52	56	2	35	1024	DPAK				
NVD6415AN	Single N Channel	100	23	20	55	—	4	29	700	DPAK				
NVD6416ANL	Single N Channel	100	19	20	74	80	2.2	25	700	DPAK				
NVD6416AN	Single N Channel	100	17	20	81	—	4	20	620	DPAK				
BVSS123L	Single N Channel	100	0.17	20	6000	—	2.8	—	20	SOT-23				
NVF6P02	Single P Channel	20	10	8	—	50	1	15	900	SOT-223				
NTRV4101P	Single P Channel	20	3.2	8	—	85	1.2	—	675	SOT-23				
NVGS3441	Single P Channel	20	2.35	8	—	90	—	6.2	480	TSOP-6				
NVMS5P02	Single P Channel	20	5.4	10	—	33	1.25	—	1375	SOIC-8				
NVGS3443	Single P Channel	20	4.4	12	—	65	1.5	7.5	565	TSOP-6				
NVTR01P02L	Single P Channel	20	1.3	12	—	220	1.25	—	225	SOT-23				
NVR1P02	Single P Channel	20	1	20	180	280	2.3	—	165	SOT-23				
NVTR0202PL	Single P Channel	20	0.4	20	800	1100	2.3	—	70	SOT-23				
MVB50P03HD	Single P Channel	30	50	15	—	25	2	—	3500	D2PAK				
STD25P03L	Single P Channel	30	25	15	—	72	2	—	900	DPAK				
NVF5P03	Single P Channel	30	5.2	20	100	150	3	—	500	SOT-223				
NVTR4502P	Single P Channel	30	1.95	20	200	350	3	6	200	SOT-23				
NVATS4A104PZ*	Single P Channel	30	75	20	8.4	13.5	2.6	76	3950	ATPAK				
NVATS4A103PZ*	Single P Channel	30	55	20	13	20.5	2.6	47	2430	ATPAK				
NVATS4A101PZ*	Single P Channel	30	25	20	30	51	2.6	18.5	875	ATPAK				
NVATS4A102PZ**	Single P Channel	30	44	20	18.5	31	2.6	34	1490	ATPAK				

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 3Q16. ** Pending 4Q16.

MOSFETs

Device	Configuration	Maximum Rating					V _{GS(th)} Max (V)	Q _G @ 10 V Typ (nC)	C _{iss} Typ (pF)	Package(s)
		V _{DS} (V)	I _D (A)	V _{GS} (V)	R _{DS(on)} (mΩ)					
					V _{GS} = 10 V	V _{GS} = 4.5 V				
NVATS5A108PLZ	Single P Channel	40	70	20	10.4	16.5	2.6	79.5	3850	ATPAK
NVATS5A107PLZ*	Single P Channel	40	50	20	17	26	2.6	47	2400	ATPAK
NVATS5A106PLZ	Single P Channel	40	30	20	25	41	2.6	29	1380	ATPAK
BVSS84L	Single P Channel	50	0.13	20	—	10000	—	—	30	SOT-23
NVB25P06	Single P Channel	60	27.5	15	75	—	4	33	1200	D2PAK
BBS3002	Single P Channel	60	100	20	5.8	9.0 @ 4.0 V	2.6	280	13200	TO-263
NVMFS5113PL	Single P Channel	60	64	20	14	22	2.5	83	4400	SO-8FL
NVD5117PL	Single P Channel	60	61	20	16	22	2.5	85	4800	DPAK
NTBV5605	Single P Channel	60	18.5	20	—	140	2	—	730	D2PAK
NTDV20P06L	Single P Channel	60	15.5	20	—	150	2	—	740	DPAK
NVTFS5116PL	Single P Channel	60	14	20	52	72	3	25	1258	μ8FL
NVD2955	Single P Channel	60	12	20	180	—	4	15	500	DPAK
NVTFS5124PL	Single P Channel	60	8	20	260	380	2.5	6	250	μ8FL
NVF2955	Single P Channel	60	2.6	20	170	—	4	14.3	492	SOT-223
NVATS5A304PLZ	Single P Channel	60	100	20	6.5	8.9	2.6	250	13000	ATPAK
NVATS5A302PLZ*	Single P Channel	60	70	20	13	18	2.6	115	5400	ATPAK
NVATS5A114PLZ*	Single P Channel	60	55	20	16	21	2.6	92	4000	ATPAK
NVATS5A113PLZ	Single P Channel	60	35	20	29.5	38	2.6	55	2400	ATPAK
NVATS5A112PLZ	Single P Channel	60	25	20	43	59	2.6	33.5	1450	ATPAK
NVC3S5A51PLZ	Single P Channel	60	1.8	20	190	235	2.6	6	262	SC-59
SMP3003	Single P Channel	75	100	20	8	11 @ 4.0 V	2.6	280	13400	TO-263
NVATS68301PZ*	Single P Channel	100	28	20	75	—	3.5	73	4000	ATPAK

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 3Q16. ** Pending 4Q16.

SELF-PROTECTED MOSFETs

Device	Description	Channels	Package(s)
LOW SIDE			
NCV8401A	Low Side Protected MOSFET, 23 mΩ	1	DPAK
NCV8402A	Low Side Protected MOSFET, 165 mΩ	1	SOT-223
NCV8402AD	Dual Low Side Protected MOSFET, 165 mΩ	2	SOIC-8
NCV8403A	Low Side Protected MOSFET, 60 mΩ	1	SOT-223, DPAK
NCV8405A	Low Side Protected MOSFET, 100 mΩ	1	SOT-223, DPAK
NCV8406A	Low Side Protected MOSFET, 210 mΩ	1	SOT-223, DPAK
NCV8408	Low Side Protected MOSFET, 65 mΩ	1	SOT-223
NCV8440A	Clamped MOSFET, 95 mΩ	1	SOT-223
NIMD6001A	Dual N-Channel MOSFET w/Diagnostic Output 130 mΩ	2	SOIC-8
HIGH SIDE			
NCV8450A	High Side Protected MOSFET, 1 Ω	1	SOT-223
NCV8452	High Side Protected MOSFET, 200 mΩ	1	SOT-223
NCV8445	High Side Protected MOSFET w/Digital Diagnostics, 45 mΩ	1	SOIC-8
NCV8460A	High Side Protected MOSFET w/Digital Diagnostics, 60 mΩ	1	SOIC-8
NCV8461	High Side Protected MOSFET w/Digital Diagnostics, 350 mΩ	1	SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

JFETs

Device	Configuration	V _{DS} (V)	I _{DSS} (mA)	V _{GSoff} (V)	g _m (mS)	C _{iss} (pF)	Package(s)
NSVJ5908DSG5*	Dual	15	10-32	-1.5 to -0.3	35	10	MCPH-5
NSVJ6904DSB6*	Dual	25	20-40	-1.8 to -0.6	40	6	CPH-6
NSVJ3557SA3	Single	15	10-32	-1.5 to -0.3	35	10	SC-59
NSVJ2394SA3	Single	15	10-32	-1.5 to -0.3	38	10	SC-59
NSVJ3910SB3	Single	25	20-40	-1.8 to -0.6	40	6	CPH-3

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 4Q16.

IGBTs

Device	Clamp Voltage	Current	V _{CE(on)} @ I _C = 10 A; V _{GE} = 4.5 V; T _J = 25 °C	Logic Level	ESD protected	Hi Pulse Current Capability	Package(s)
NGB8245N	450 V	20 A	1.3 V	Yes	Yes	Yes	D2PAK
NGD18N45CLB	450 V	18 A	2.3 V	Yes	Yes	Yes	DPAK
NGB15N41ACL	410 V	15 A	2.1 V	Yes	Yes	Yes	D2PAK
NGD15N41ACL	410 V	15 A	2.1 V	Yes	Yes	Yes	DPAK
NGD8201BNT4G	400 V	20A	1.8V	Yes	Yes	Yes	DPAK
NGB18N40ACLB	400 V	18 A	2.0 V	Yes	Yes	Yes	D2PAK
NGD18N40ACLB	400 V	18 A	2.0 V	Yes	Yes	Yes	DPAK
NGB8202AN	400 V	20 A	1.3 V	Yes	Yes	Yes	D2PAK
NGD8201AN	400 V	20 A	1.3 V	Yes	Yes	Yes	DPAK
NGB8204AN	400 V	18 A	2.0 V	Yes	Yes	Yes	D2PAK
NGB8207BN	365 V	20 A	1.5 V	Yes	Yes	Yes	D2PAK
NGB8207ABN	365 V	20 A	1.75 V	Yes	Yes	Yes	D2PAK
NGD8205AN	350 V	20 A	1.3 V	Yes	Yes	Yes	DPAK
NGB8206AN	350 V	20 A	1.3 V	Yes	Yes	Yes	D2PAK

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

SCHOTTKY RECTIFIERS

Device	V _{RRM} (V)	I _{O(rec)} (A)	V _F Max (V)	I _R Max (mA)	I _{FSM} (A)	Package(s)
NRVB0530	0.5	30	0.43	0.13	5.5	SOD-123
NRVB140SF	1	40	0.55	0.5	30	SOD-123 FL
NRVB140ESF	1	40	0.56	0.03	30	SOD-123 FL
NRVTS245ESF*	2	45	0.65	0.075	50	SOD-123 FL
NRVTS260ESF*	2	60	0.65	0.012	25	SOD-123 FL
NRVB1H100SF	1	100	0.76	0.04	50	SOD-123 FL
NRVB2H100SF	2	100	0.84	0.04	50	SOD-123 FL
NRVTSM245E*	2	45	0.65	0.075	50	POWERMITE®
NRVTSM260E*	2	60	0.65	0.012	50	POWERMITE
MBRM1H100	1	100	0.76	0.02	50	POWERMITE
NRVBM2H100	2	100	0.84	0.02	50	POWERMITE
NRVBA140	1	40	0.55	0.5	30	SMA
NRVBA160	1	60	0.51	0.2	60	SMA
NRVBA1H100	1	100	0.76	0.04	50	SMA
NRVBA2H100	2	100	0.79	0.008	130	SMA
NRVBA340	3	40	0.45	0.3	100	SMA
NRVTS4100E*	4	100	0.68	0.009	150	SMA
MBRAF1100	1	100	0.75	0.5	50	SMA Flat
NRVBAF1540	1.5	40	0.46	0.8	40	SMA Flat
MBRAF260	2	60	0.63	0.2	60	SMA Flat
MBRAF2H100	2	100	0.79	0.05	130	SMA Flat
NRVBAF360	3	60	0.63	0.03	125	SMA Flat
NRVBAF3200	3	200	0.84	1	100	SMA Flat
NRVBAF440	4	40	0.485	0.3	100	SMA Flat
NRVTS4F5100E*	5	100	0.69	0.009	50	SMA Flat
MBRAF360	3	60	0.63	0.03	125	SMA Flat
MBRAF3200	3	200	0.84	1	100	SMA Flat
MBRAF440	4	40	0.485	0.3	100	SMA Flat
SBRS8130L	1	30	0.395	1	40	SMB
SBRS8140	1	40	0.6	1	40	SMB
SBRS8190	1	90	0.75	0.5	50	SMB
SBRS81100	1	100	0.75	0.5	50	SMB
MBRS1540	1.5	40	0.46	0.8	40	SMB
NRVBS2040L	2	40	0.43	0.8	70	SMB
NRVBS240L	2	40	0.43	2	25	SMB
NRVBS260	2	60	0.63	0.2	60	SMB
NBRS2H100	2	100	0.79	0.008	130	SMB
NRVBS360B	3	60	0.74	0.15	125	SMB
NRVBS3200	3	200	0.84	1	100	SMB
NRVTSS5100E*	5	100	0.69	0.009	50	SMB
SBRS8340	3	40	0.5	2	80	SMC
NRVBS360	3	60	0.74	0.15	125	SMC
NRVBS3100	3	100	0.79	0.05	130	SMC
NRVBS3201	3	200	0.84	1	100	SMC
NRVBS4201	4	200	0.86	1	100	SMC
NRVBS540	5	40	0.5	0.3	190	SMC
SBRD8340	3	40	0.6	0.2	75	DPAK
SBRD8350	3	50	0.6	0.2	75	DPAK
SBRD8360	3	60	0.6	0.2	75	DPAK
NBRD5H100	5	100	0.71	0.0035	105	DPAK

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * Trench Schottky rectifiers for improved efficiency and lower operating temperatures.

SCHOTTKY RECTIFIERS

Device	V _{RRM} (V)	I _{O(rec)} (A)	V _F Max (V)	I _R Max (mA)	I _{FSM} (A)	Package(s)
NRVBD640CT	6	40	0.9	0.1	75	DPAK
NRVBD650CT	6	50	0.7	0.1	75	DPAK
NRVBD660CT	6	60	0.7	0.1	75	DPAK
NRVBD1035CTL	10	35	0.56	2	50	DPAK
SBRD81045	10	45	0.57	0.1	70	DPAK
NBRB8H100	8	100	0.71	0.0045	250	D2PAK
SBRB1045	10	45	0.84	0.1	150	D2PAK
NRVBB1060	10	60	0.8	0.1	150	D2PAK
SBRB1545CT	15	45	0.84	0.1	150	D2PAK
NRVBB1645	16	45	0.63	0.2	150	D2PAK
NRVBB2060CT	20	60	0.95	0.2	150	D2PAK
NRVBB20100CT	20	100	0.95	0.1	150	D2PAK
NTSB20100CT*	20	100	0.83	0.8	150	D2PAK
NTSB20U100CT*	20	100	0.79	0.8	150	D2PAK
NTSB20120CT*	20	120	1.1	0.7	120	D2PAK
SBRB20200CT	20	200	1	1	150	D2PAK
SBRB2545CT	25	45	0.82	0.2	150	D2PAK
NRVBB30H60CT	30	60	0.62	0.3	260	D2PAK
NRVB440MFS	4	40	0.63	0.8	40	SO-8 FL / DFN-5
NRVB460MFS	4	60	0.74	0.2	40	SO-8 FL / DFN-5
NRVB540MFS	5	40	0.57	0.06	40	SO-8 FL / DFN-5
NRVB560MFS	5	60	0.75	0.15	60	SO-8 FL / DFN-5
NRVB5100MFS	5	100	0.9	0.05	60	SO-8 FL / DFN-5
NRVB5H100MFS	5	100	0.73	0.1	200	SO-8 FL / DFN-5
NRVB860MFS	8	60	0.8	0.15	150	SO-8 FL / DFN-5
NRVB8H100MFS	8	100	0.9	0.3	75	SO-8 FL / DFN-5
NRVB1045MFS	10	45	0.62	0.5	150	SO-8 FL / DFN-5
NRVB10100MFS	10	100	0.95	0.1	150	SO-8 FL / DFN-5
NRVB1240MFS	12	40	0.68	0.5	150	SO-8 FL / DFN-5
NRVB2045EMFS	20	45	0.64	0.4	400	SO-8 FL / DFN-5
NRVB30H100MFS	30	100	0.9	0.1	300	SO-8 FL / DFN-5
NRVTS1045EMFS*	10	45	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS1245EMFS*	12	45	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS1545EMFS*	15	45	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS560EMFS*	5	60	0.61	0.03	150	SO-8 FL / DFN-5
NRVTS860EMFS*	8	60	0.62	0.045	150	SO-8 FL / DFN-5
NRVTS1260EMFS*	12	60	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS10100EMFS*	10	100	0.69	0.07	200	SO-8 FL / DFN-5
NRVTS10100EMFS*	10	100	0.72	0.05	200	SO-8 FL / DFN-5
NRVTS12100EMFS*	12	100	0.71	0.095	200	SO-8 FL / DFN-5
NRVTS12100EMFS*	12	100	0.73	0.055	200	SO-8 FL / DFN-5
NRVTS10120MFS*	10	120	0.825	0.055	200	SO-8 FL / DFN-5
NRVTS10120EMFS*	10	120	0.82	0.03	200	SO-8 FL / DFN-5
NRVTS12120MFS*	12	120	0.83	0.075	200	SO-8 FL / DFN-5
NRVTS12120EMFS*	12	120	0.83	0.055	200	SO-8 FL / DFN-5

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * Trench Schottky rectifiers for improved efficiency and lower operating temperatures.

ULTRAFAST RECTIFIERS

Device	V _{RRM} (V)	I _{O(rec)} (A)	V _F Max (V)	I _R Max (μA)	I _{FSM} (A)	t _{rr} Max (ns)	Package(s)
SURA8110	100	1	0.875	2.0	50	30	SMA
SURS8110	100	1	0.875	2.0	40	35	SMB
SURA8210	100	2	0.94	2.0	50	30	SMA
SURS8210	100	2	0.94	2.0	50	30	SMB
SURA8120	200	1	0.875	2.0	40	35	SMA
SURS8120	200	1	0.875	2.0	40	35	SMB
SURA8220	200	2	0.95	2.0	40	35	SMA
SURS8220	200	2	0.95	2.0	40	25	SMB
SURD8320	200	3	0.95	5.0	75	35	DPAK
SURS8320	200	3	0.875	5.0	75	35	SMC
SSRD8620CT	200	6	1.15	5.0	50	45	DPAK
SSRD8620CTR	200	6	1.3	1.0	45	75	DPAK
NRVUD620CT	200	6	1.2	5.0	63	35	DPAK
NRVUB1620CTR	200	16	1.2	5.0	100	85	D2PAK
NRVUB1620CT	200	16	0.975	5.0	100	35	D2PAK
SURD8530	300	5	1.05	5.0	75	50	DPAK
SURA8140	400	1	1.1	5.0	35	65	SMA
SURS8160	600	1	1.25	5.0	35	75	SMB
SURHS8160	600	1	2.4	20.0	15	35	SMB
SURS8360	600	3	1.25	10.0	75	75	SMC
SURHD8560	600	5	2.7	10.0	50	30	DPAK
NRVUB1660CT	600	16	1.5	10.0	100	60	D2PAK
MURHD560	600	5	2.7	10.0	50	30	DPAK
NRVUB1660CT	600	16	1.5	10.0	100	60	D2PAK

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

BIPOLAR POWER TRANSISTORS

NPN	PNP	V _{(BR)CEO} Min (V)	I _C Continuous (A)	h _{FE} Min	h _{FE} Max	f _T Min (MHz)	P _D Watts	Package(s)
NJVMJB41C	NJVMJB42C	100	6	15	75	3	65	D2PAK
NJVMJB44H11	NJVMJB45H11	80	8	60	—	—	50	
NJVMJD50	—	400	1	30	150	10	15	DPAK
NJVMJD340	NJVMJD350	300	0.5	30	240	—	15	
NJVMJD47	—	250	1	30	150	10	15	
NJVMJD41C	NJVMJD42C	100	6	15	75	3	20	
NJVMJD243	NJVMJD253	100	4	40	180	40	12.5	
NJVMJD31C	NJVMJD32C	100	3	10	50	3	15	
NJVMJD44H11	NJVMJD45H11	80	8	60	—	—	20	
NJVMJD3055	NJVMJD2955	60	10	20	100	2	20	
NJVNJD2873	—	50	2	120	360	65	15	
—	NJVNJD1718	50	2	70	240	80	15	
NJVMJD148	—	45	4	85	375	3	20	
NJVMJD31	NJVMJD32	40	3	10	50	3	15	
—	NJVMJD210	25	5	45	180	3	12.5	
—	SMMJT350	300	0.75	30	240	—	2.75	SOT-223
SPZTA42	NSVPZTA92	300	0.5	40	—	50	1.5	
SBF720	—	300	0.1	50	—	60	1.5	
SBCP56*	SBCP53	80	1 / 1.5	40*	250*	—	1.5	
SPZT651	SPZT751	60	2	40	—	75	0.8	
—	SPZT2907A	60	0.6	100	300	200	1.5	
SPZT2222A	—	40	0.6	100	300	300	1.5	
SPZT3904	—	40	0.2	100	300	300	1.5	
NJV4031N	NJV4030P	40	5	200	500	100	2	
SBCP68	NSVBCP69	20	1	85	375	—	1.5	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com. *Different h_{FE} windows available.

LOW SATURATION VOLTAGE TRANSISTORS

	NPN	PNP	V _{(BR)CEO} Min (V)	I _C Peak Max (A)	h _{FE} Min	h _{FE} Max	f _T Min (MHz)	V _{CE(sat)} @ 1.0 A Max (V)	Package(s)
Single	NSV1C301E	—	100	3	120	360	120	0.09	DPAK
	—	NSV1C300E	100	3	120	360	100	0.15	
	NSV1C201MZ4	NSV1C200MZ4	100	3	120	360	100	0.1	
	NSV60601MZ4	NSV60600MZ4	60	12	120	360	100	0.06 / 0.07	SOT-223
	NSV40301MZ4	NSV40300MZ4	40	5	200 / 175	500 / 350	—	0.1 / 0.15	
	NSV20201J	—	20	2	200	500	350	0.22	SC-89
	SNSS30201MR6	—	30	3	300	900	200	0.2	TSOP-6
	—	SNSS35200MR6	35	5	100	400	100	0.2	
	—	SMBT35200M	35	5	100	400	100	0.2	
	NSVT489AM	—	30	3	300	900	200	0.2	
	—	SNSS40600CF8	40	7	220	300	100	0.075	ChipFET
	NSV40201L	NSV1C200L	100	3	120	360	—	0.09 / 0.115	SOT-23
	NSV60201L	NSV60200L	60	4	150	350 / 300	100	0.14 / 0.22	
	NSV40201L	NSV40200L	40	4	200 / 250	—	150 / 100	0.06 / 0.095	
	NSV20201L	NSV20200L	20	4	200 / 250	—	150 / 100	0.05 / 0.09	
	—	NSVMMBT589L	30	2	100	300	100	0.3	
	—	NSV12100XV6	12	2	100	—	—	0.44	SOT-563
Dual	—	NSV40300MD	40	6	220	—	100	0.095	SOIC-8
	NSV60101DMTWTBG	NSV60100DMTWTBG	60	2	120	—	—	0.3	WDFN-6

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com.

SMALL SIGNAL BIPOLAR TRANSISTORS

NPN	PNP	V _{(BR)CEO} Min (V)	I _C Continuous (A)	h _{FE} Min	h _{FE} Max	f _T Min (MHz)	Package(s)
NSVBSP19	—	350	0.1	40	—	70	SOT-223
—	SMMJT350	300	0.5	30	240	—	
SPZTA42	NSVPZTA92	300	0.5	40	—	50	
SBF720	—	300	0.1	50	—	60	
SBCP56*	SBCP53*	80	1.5	40	250	—	
—	SPZT2907A	60	0.6	100	300	200	
SPZT2222A	—	40	0.6	100	300	300	
SPZT3904	—	40	0.2	100	300	300	
SBCP68	NSVBCP69	20	1	85	375	—	SC-59
SMSD602-R	—	50	0.5	120	240	—	SOT-23
SMMBT42L	—	300	0.5	40	—	50	
—	SMMBT492L	300	0.5	25	—	50	
SMMBT5551L	—	160	0.6	80	250	—	
—	SMMBT5401L	150	0.5	60	240	100	
—	—	140	0.6	60	250	—	
—	NSVBSS63L	100	0.1	30	—	50	
SMMBT406L	SMMBT456L	80	0.5	100	—	50	
SBC846AL	—	65	0.1	110	220	100	
SBC846BL	—	65	0.1	200	450	100	
—	SBC856AL	65	0.1	125	250	100	
—	SBC856BL	65	0.1	220	475	100	
—	SMMBT2907AL	60	1.2	50	300	200	
—	NSVMMBT5087L	50	0.05	250	800	40	
SBCW66GL	—	45	1.2	160	400	100	
SBC817*	SBC807*	45	0.5	100*	600*	100	
SBCX19L	—	45	0.5	100	600	—	
NSVMMBT6429L	—	45	0.2	500	1250	100	
SBC847BL	—	45	0.1	200	450	100	
SBC847CL	SBC857CL	45	0.1	420	800	100	
—	SBC857AL	45	0.1	125	250	100	
—	SBC857BL	45	0.1	220	475	100	
SBCW72L	—	45	0.1	200	450	—	
SMMBT4401L	—	40	0.6	100	300	250	
—	SMMBT4403L	40	0.6	100	300	200	
SMMBT2222AL	—	40	0.6	100	300	300	
SMMBT3904L	—	40	0.2	100	300	300	
—	SMMBT3906L	40	0.2	100	300	250	
—	SBCW30L	32	0.1	215	500	—	
SBCW33L	—	32	0.1	420	800	—	
NSVMMBT589L	—	30	1	100	300	100	
SBC848BL	—	30	0.1	200	450	100	
NSVBC848CL	—	30	0.1	420	800	100	
—	NSVBC858BL	30	0.1	220	475	100	
—	NSVBC858CL	30	0.1	420	800	100	
SMMBT5088L	—	30	0.05	300	900	50	
NSVMMBT10L	—	25	—	60	—	650	
NSVBC818-40L	SBC808-25L	25	0.5	250	600	100	
SMMBT6521L	—	25	0.1	300	600	—	
SMMBT5089L	—	25	0.05	400	1200	50	
SMMBT2369L	—	15	0.2	40	120	—	
SMMBT2369AL	—	15	0.2	40	120	—	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com. *Gain windows available.

SMALL SIGNAL BIPOLAR TRANSISTORS

NPN	PNP	$V_{(BR)CE0}$ Min (V)	I_C Continuous (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	Package(s)
NSVMSD42W	—	300	0.15	40	—	—	SC-70 (SOT-323)
SMMBTA06W	—	80	0.5	100	—	100	
—	SMMBTA56W	80	0.5	100	—	50	
SBC846BW	—	65	0.1	200	480	100	
—	SBC856BW	65	0.1	220	475	100	
—	NSVMMBT2907AW	60	0.6	100	—	200	
SMSD1819A—R	—	50	0.2	210	340	—	
—	SBC807—25W	45	0.5	160	400	100	
—	SBC807—40W	45	0.5	250	600	100	
SBC847AW	—	45	0.1	110	220	100	
SBC847BW	—	45	0.1	200	450	100	
SBC847CW	—	45	0.1	420	800	100	
—	SBC857BW	45	0.1	220	475	100	
SMMBT2222AW	—	40	0.6	100	300	300	
SMMBT3904W	—	40	0.2	100	300	300	
—	SMMBT3906W	40	0.2	100	300	250	
—	S2SA1774	50	0.1	120	560	—	SC-75
S2SC4617	—	50	0.1	120	560	180	
MBT2222AT	—	40	0.6	100	—	300	
SMMBT3904T	—	40	0.2	100	300	180	
NSVBC846BM3	—	65	0.1	200	450	100	SOT-723
—	NSVBC856BM3	65	0.1	220	475	100	
SHN1B01FDW1	Dual Complementary	50	0.2	200	400	0.38	SC-74
SBC846BDW1	Dual NPN	65	0.1	200	450	100	SC-88 (SOT-363)
SBC847CDW1	—	45	0.1	420	800	100	
NSVT45011MW6	—	45	0.1	200	500	100	
SBC847BDW1	—	45	0.1	200	450	100	
NSVBT2222ADW1	—	40	0.6	100	300	300	
SMBT3904DW1	—	40	0.2	100	300	300	
NSVBC848CDW1	—	30	0.1	420	800	100	
SBC856BDW1	Dual PNP	65	0.1	220	475	100	
SBC857BDW1	—	45	0.1	220	475	100	
NSVT45010MW6	—	45	0.1	220	475	100	
SMBT3906DW1	—	40	0.2	100	300	250	
SBC846BPDW1	Dual Complementary	65	0.1	200	475	100	
SBC847BPDW1	—	45	0.1	200	475	100	
SMBT3946DW1	—	40	100	100	300	250	
NSVEMX1DXV6	Dual NPN	50	0.1	120	560	—	SOT-563
SBC847CDXV6	—	45	0.1	420	800	—	
NSVT3904DXV6	—	40	0.2	100	300	300	
NSVT30010MXV6	Dual PNP	30	0.1	420	800	100	
SBC847BPDV6	Dual Complementary	45	0.1	200	475	100	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com. *Gain windows available.

RF BJTs

Device	Maximum Ratings		f_T Typ (GHz)	Package(s)
	V_{CE} (V)	I_C (mA)		
NSVF4009SG4*	3.5	40	25 @ $V_{CE} = 3$ V, $I_C = 20$ mA	SOT-343
NSVF4020SG4*	8	150	16.5 @ $V_{CE} = 5$ V, $I_C = 50$ mA	SOT-343
NSVF3007SG3**	12	30	8 @ $V_{CE} = 5$ V, $I_C = 10$ mA	SOT-323
NSVF6001SB6**	12	100	6.7 @ $V_{CE} = 5$ V, $I_C = 30$ mA	SC-74
NSVF6003SB6**	12	150	7.0 @ $V_{CE} = 5$ V, $I_C = 50$ mA	SC-74

NOTE: Contact ON Semiconductor for AEC and PPAP status. * Pending 3Q16. ** Pending 4Q16.

DIGITAL TRANSISTORS

	NPN Device	PNP Device	$V_{(BR)CEO}$ Min (V)	I_C Continuous (mA)	h_{FE} Min	R_1 (Ω)	R_2 (Ω)	Package(s)
SINGLE	—	NSV9435	30	3000	125	—	10	SOT-223
	SMUN2240	—	50	100	160	47	∞	SC-59
	SMUN2213	SMUN2113	50	100	80	47	47	
	—	NSVMUN2237	50	100	80	47	22	
	NSVMUN2212	—	50	100	60	22	22	
	SMUN2214	SMUN2114	50	100	80	10	47	
	SMUN2211	SMUN2111	50	100	35	10	10	
	SMUN2216	—	50	100	160	4.7	∞	
	NSVMUN2233	—	50	100	80	4.7	47	
	SMUN2232	—	50	100	15	4.7	4.7	
	SMUN2230	—	50	100	3	1	1	
	SMMUN2213L	SMMUN2113L	50	100	80	47	47	SOT-23
	SMMUN2234L	SMMUN2134L	50	100	80	22	47	
	NSVMMUN2212L	—	50	100	60	22	22	
	SMMUN2215L	—	50	100	160	10	∞	
	SMMUN2214L	SMMUN2114L	50	100	80	10	47	
	SMMUN2211L	SMMUN2111L	50	100	35	10	10	
	SMMUN2216L	SMMUN2116L	50	100	160	4.7	∞	
	SMMUN2233L	—	50	100	80	4.7	47	
	—	NSVMMUN2133L	50	100	80	4.7	47	
	NSVMMUN2217L	—	50	100	50	4.7	10	
	NSVMMUN2232L	NSVMMUN2132L	50	100	15	4.7	4.7	
	SMMUN2238L	—	50	100	160	2.2	∞	
	—	NSVMMUN2131L	50	100	8	2.2	2.2	
	NSVMMUN2230L	—	50	100	3	1	1	
	SMUN5211	SMUN5111	50	100	35	10	10	SC-70 (SOT-323)
	SMUN5212	SMUN5112	50	100	60	22	22	
	SMUN5213	SMUN5113	50	100	80	47	47	
	SMUN5214	SMUN5114	50	100	80	10	47	
	SMUN5215	SMUN5115	50	100	160	10	∞	
	—	SMUN5131	50	100	8	2.2	2.2	
	SMUN5232	NSVMUN5132	50	100	15	4.7	4.7	
	SMUN5233	SMUN5133	50	100	80	4.7	47	
	SMUN5235	—	50	100	80	22	47	
	NSVMUN5236	—	50	100	80	100	100	
	SDTC144EE	—	50	100	80	47	47	SC-75
	NSVDTC144WE	—	50	100	80	47	22	
	SDTC124EE	—	50	100	60	22	22	
	SDTC114YE	SDTA114YE	50	100	80	10	47	
	SDTC114EE	NSVDTA114EE	50	100	35	10	10	
	NSVDTC143ZE	NSVDTA143ZE	50	100	80	4.7	47	
	NSVDTC144TM3	—	50	100	160	47	∞	
	NSVDTC114YM3	—	50	100	80	10	47	SOT-723
	—	NSVDTA114EM3	50	100	35	10	10	
	NSVDTC143ZM3	—	50	100	80	4.7	47	
DUAL	SMUN5213DW1	SMUN5113DW1	50	100	80	47	47	SC-88
	SMUN5237DW1	NSVMUN5137DW1	50	100	80	47	22	
	NSVMUN5212DW1	SMUN5112DW1	50	100	60	22	22	
	—	SMUN5115DW1	50	100	160	10	∞	
	SMUN5214DW1	SMUN5114DW1	50	100	80	10	47	
	SMUN5211DW1	SMUN5111DW1	50	100	35	10	10	
	SMUN5216DW1	SMUN5116DW1	50	100	160	4.7	∞	
	SMUN5233DW1	—	50	100	80	4.7	47	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com.

DIGITAL TRANSISTORS

	NPN Device	PNP Device	V _{(BR)CEO} Min (V)	I _C Continuous (mA)	h _{FE} Min	R ₁ (Ω)	R ₂ (Ω)	Package(s)
DUAL	SMUN5232DW1	—	50	100	15	4.7	4.7	SC-88
	SMUN5235DW1	—	50	100	80	2.2	47	
	SMUN5231DW1	SMUN5131DW1	50	100	8	2.2	2.2	
	SMUN5230DW1	—	50	100	3	1	1	
	NSVBC124EDXV6	—	50	100	60	22	22	SOT-563
	NSVBC114YDXV6	NSVBA114YDXV6	50	100	80	10	47	
	Device	Type	V _{(BR)CEO} Min (V)	I _C Continuous (mA)	h _{FE} Min	R ₁ (Ω)	R ₂ (Ω)	Package(s)
Combinational	SMUN5311DW1	Complementary	50	100	35	10	10	SC-88
	SMUN5312DW1		50	100	80	22	22	
	SMUN5313DW1		50	100	80	47	47	
	SMUN5314DW1		50	100	80	10	47	
	SMUN5315DW1		50	100	160	10	∞	
	SMUN5330DW1		50	100	3	1	1	
	NSVMUN5332DW1		50	100	15	4.7	4.7	
	NSVMUN5333DW1		50	100	80	4.7	47	
	NSVMUN5334DW1		50	100	80	22	47	
	SMUN5335DW1		50	100	80	2.2	47	
	NSVB123JPD XV6		50	100	80	2.2	47	
	NSVB124XPDXV6		50	100	80	22	47	
	NSVB143TPDXV6		50	100	160	4.7	∞	SOT-563
	NSVB143ZPD XV6		50	100	80	4.7	47	
	NSVB144EPDXV6		50	100	80	47	47	
	NSVUMC2N	Digital PNP Trx Base to Collector of Digital NPN Trx	50	100	100	22	22	SC-88A
	NSVUMC3N		50	100	35	10	10	
	NSVUMC5N		50	100	20	47 / 4.7	47 / 10	
	NSVB1706DMW5	Dual NPN, Common Emitter	50	100	80	4.7	47	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com.

DARLINGTON TRANSISTORS

NPN	PNP	V _{(BR)CEO} Min (V)	I _C Continuous (A)	h _{FE} Min	h _{FE} Max	f _T Min (MHz)	Package(s)
NJVNJD35N04	—	350	4	2k	—	90	DPAK
—	NJVMJD128	120	8	1k	12k	4	
NJVMJD127	—	100	8	1K	12k	4	
NJVMJD122	—	100	8	1k	12k	4	
NJVMJD112	NJVMJD117	100	2	1k	12k	25	
NJVMJD44E3	—	80	10	1k	—	—	
NJVMJD6039	—	80	2	1k	—	—	
SBSP52	—	80	1	2	—	—	SOT-223
SMMBT6427L	—	40	0.5	20k	200k	130	SOT-23
—	SMMBTA64L	30	0.5	20k	—	125	
SMMBTA13L	—	30	0.3	10k	—	125	
SMMBTA14L	—	30	0.3	20k	—	125	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com.

SCHOTTKY DIODES

Device	V _R (V)	I _F (mA)	C _T Max (pF)	V _F Max (V)	I _R Max (μA)	Type	Package(s)
SMMSD701	70	200	1	0.5	0.2	Single	SOD-123
SMMSD301	30	200	1.5	0.45	0.2	Single	
NSVBAT54H	30	200	10	0.32	2	Single	SOD-323
NSVR0320MW2	23	1000	35	0.27	50	Single	
NSVR1020MW2	20	1000	29	0.44	40	Single	
NSVR0240V2	40	250	4	0.7	0.55	Single	SOD-523
SBAT54XV2	30	200	10	0.32	2	Single	
NSVRB521S30	30	200	—	0.5	30	Single	
NSVR0520V2	20	500	35	0.48	30	Single	
NSVR0230M2	30	200	—	0.325	10	Single	SOD-723
NSVR0230P2	30	200	—	0.325	10	Single	SOD-923
NSVBAT54M3	30	200	10	0.32	2	Single	SOT-723
NSVBAS70L	70	70	2	0.41	0.1	Single	SOT-23
SMMBD701L	70	—	1	0.5	0.2	Single	
SBAS70—04L	70	—	2	0.41	0.1	Dual Series	
SBAS40L	40	120	5	0.38	1	Single	
SBAS40—04L	40	120	5	0.38	1	Dual Series	
SBAS40—06L	40	120	5	0.38	1	Dual Common Anode	
SBAT54CL	30	200	10	0.32	2	Dual Common Cathode	
NSVBAT54L	30	200	10	0.32	2	Single	
SBAT54AL	30	200	10	0.32	2	Dual Common Anode	
SBAT54SL	30	200	10	0.32	2	Dual Series	
SMMBD301L	30	—	1.5	0.45	0.2	Single	
NSVMMD353L	7	—	1	0.6	10	Dual Series	
NSVMMD354L	7	—	1	0.6	10	Dual Common Cathode	
SMMBD770	70	200	1	0.5	0.2	Single	SC-70 (SOT-323)
SBAT54AW	30	200	10	0.32	2	Dual Common Anode	
SBAT54CW	30	200	10	0.32	2	Dual Common Cathode	
NSVBAT54W	30	200	10	0.32	2	Single	
NSVBAT54SW	30	200	10	0.32	2	Dual Series	
SMMBD330	30	200	1.5	0.45	0.2	Single	
NSVMMD352W	7	—	1	0.6	10	Dual Series	SC-88-6 (SC-70-6, SOT-363-6)
NSVMMD770DW1	70	200	1	0.5	0.2	Dual Isolated	
SBAT54CT	30	600	10	0.32	2	Dual Common Cathode	SC-75

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. Additional AEC qualified devices are available at www.onsemi.com.

RF SCHOTTKY BARRIER DIODE

Device	Maximum Rating	V _F Max (mV) @ I _F = 1 mA	C Typ (pF) @ V _R = 0.2 V, f = 1 MHz	Package(s)
	V _R (V)			
NSVR201MX**	2	320	0.15	X2DFN2
NSVR351SDSA3*	5	230	0.69	SC-59

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 3Q16. ** Pending 4Q16.

SWITCHING DIODES

Device	V _R Min (V)	I _R Max (μA)	V _F Max (V)	C _T Max (pF)	t _{rr} Max (ns)	Type	Package(s)
SM1MA151WK	40	0.1	1.2	2	2	Dual Common Cathode	SC-59
SBAS21L	250	0.1	1	5	50	Single	SOT-23
NSVBAS21SL	250	1	1	5	50	Dual Series	
SBAS20L	200	0.1	1	5	50	Single	
NSVBAS19L	120	0.1	1	5	50	Single	
SMMBD7000L	100	1	1.1	1.5	4	Dual Series	
SBAW56L	100	5	1	4	4	Single	
SMMBD914L	100	5	1	4	4	Dual Common Cathode	
SBAS116L	75	0.005	1.1	2	3000	Single	
SBAS16L	75	1	1	2	6	Single	
SBAV199L	70	0.005	1	2	3000	Dual Series	
SBAV70L	70	2.5	1	1.5	6	Dual Common Anode	
SBAV99L	70	2.4	1	1.5	6	Dual Series	
SBAW56L	70	2.4	1	2	6	Dual Common Anode	
SMMBD2837L	35	0.1	1	4	4	Dual Common Cathode	
SM1MA142WA	80	0.1	1.2	2	10	Dual Common Cathode	SC-70
SM1MA142WK	80	0.1	1.2	2	10	Dual Common Anode	
SBAS16W	75	1	1	2	6	Single	
SBAV70W	70	5	1	1.5	6	Dual Common Cathode	
SBAV99RW	70	2.5	1	1.5	6	Dual Series	
SBAW56W	70	2.5	1	2	6	Dual Common Anode	
SBAV99W	70	2.4	1	1.5	6	Dual Series	
NSVBAS21TMR6	250	0.1	1.25	5	50	Tri Isolated	SC-74
SHN2D02FUTW1	80	0.1	1.2	2	3	Tri Isolated	SC-88-6
SBAS21DW5	250	0.1	1	5	50	Dual Isolated	SC-88A 5
SBAS16DXV6	75	1	1	2	6	Dual Isolated	SOT-563
NSVBAS21M3	250	0.1	1	5	50	Single	SOT-723
NSVBAV70T	70	5	1	1.5	6	Dual Common Cathode	SC-75
SBAW56T	70	2.5	1	2	6	Dual Common Anode	
SMMSD103	250	1	1	5	50	Single	SOD-123
SMMSD4148	100	5	1	4	4	Single	
SMMSD914	100	5	1	4	4	Single	
NSVD350HT1G	350	1500	5	0.6	0.15	Single	SOD-323
NSVBAS21H	250	1	1	5	50	Single	
SBAS20H	200	0.1	1	5	50	Single	
SMMDL914	100	5	1	4	4	Single	
SBAS16H	75	1	1	2	6	Single	
SMMDL6050	70	0.1	0.7	2.5	4	Single	
NSV1SS400	100	0.1	1.2	3	4	Single	SOD-523
SBAS16XV2	75	1	1	2	6	Single	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

PIN DIODES

Device	Maximum Rating		C Typ (pF) @ V _R = 50 V, f = 1 MHz	r _s Typ (Ω) @ I _F = 10 mA, f = 100 MHz	Package(s)
	V _R (V)	I _F (mA)			
NSVP249SDSF3*	50	50	0.23	4.5	SC-70
NSVP264SDSF3**	50	50	0.23	2.5	SC-70

NOTE: Contact ON Semiconductor for AEC and PAPP status. * Pending 3Q16. ** Pending 4Q16.

ZENER DIODES

V _Z Typ	225 mW		225 mW		300 mW		500 mW		500 mW			1.5 W	3 W
Volts	SOT-23 (5%)	SOT-23 (2%)	SOT-23 (5%)	SOT-23 (2%)	SOD-323 (5%)	SOD-323 (2%)	SOD-523 (5%)	SOD-523 (2%)	SOD-123			SMA	SMB
2.4	NZ9F2V4	NZ9F2V4	BZX84C2V4L	—	MM3Z2V4	—	MM5Z2V4	MM5Z2V4	—	MMSZ2V4	—	—	—
2.7	NZ9F2V7	NZ9F2V7	BZX84C2V7L	—	MM3Z2V7	—	MM5Z2V7	MM5Z2V7	—	MMSZ2V7	MMSZ5223B	—	—
3	NZ9F3V0	NZ9F3V0	BZX84C3V0L	—	MM3Z3V0	MM3Z3V0	MM5Z3V0	—	MMSZ4683	MMSZ3V0	MMSZ5225B	—	—
3.3	NZ9F3V3	NZ9F3V3	BZX84C3V3L	—	MM3Z3V3	MM3Z3V3	MM5Z3V3	MM5Z3V3	MMSZ4684	MMSZ3V3	MMSZ5226B	1SMA5913B	1SMB5913B
3.6	NZ9F3V6	NZ9F3V6	BZX84C3V6L	—	MM3Z3V6	—	MM5Z3V6	MM5Z3V6	MMSZ4685	MMSZ3V6	—	—	1SMB5914B
3.9	NZ9F3V9	NZ9F3V9	BZX84C3V9L	—	MM3Z3V9	MM3Z3V9	—	—	MMSZ4686	MMSZ3V9	—	—	1SMB5915B
4.3	NZ9F4V3	NZ9F4V3	BZX84C4V3L	—	MM3Z4V3	MM3Z4V3	MM5Z4V3	MM5Z4V3	MMSZ4687	—	—	1SMA5914B	—
4.7	NZ9F4V7	NZ9F4V7	BZX84C4V7L	BZX84B4V7L	MM3Z4V7	MM3Z4V7	MM5Z4V7	MM5Z4V7	MMSZ4688	—	MMSZ5230B	1SMA5917B	1SMB5917B
5.1	NZ9F5V1	NZ9F5V1	BZX84C5V1L	BZX84B5V1L	MM3Z5V1	MM3Z5V1	MM5Z5V1	MM5Z5V1	MMSZ4689	MMSZ5V1	MMSZ5231B	1SMA5918B	1SMB5918B
5.6	NZ9F5V6	NZ9F5V6	BZX84C5V6L	BZX84B5V6L	MM3Z5V6	MM3Z5V6	MM5Z5V6	MM5Z5V6	MMSZ4690	MMSZ5V6	MMSZ5232B	1SMA5919B	1SMB5919B
6.2	NZ9F6V2	NZ9F6V2	BZX84C6V2L	BZX84B6V2L	MM3Z6V2	MM3Z6V2	MM5Z6V2	MM5Z6V2	MMSZ4691	MMSZ6V2	MMSZ5234B	1SMA5920B	1SMB5920B
6.8	NZ9F6V8	NZ9F6V8	BZX84C6V8L	BZX84B6V8L	MM3Z6V8	MM3Z6V8	MM5Z6V8	MM5Z6V8	MMSZ4692	MMSZ6V8	MMSZ5235B	1SMA5921B	1SMB5921B
7.5	NZ9F7V5	NZ9F7V5	BZX84C7V5L	BZX84B7V5L	MM3Z7V5	MM3Z7V5	MM5Z7V5	MM5Z7V5	MMSZ4693	MMSZ7V5	MMSZ5236B	1SMA5922B	1SMB5922B
8.2	NZ9F8V2	NZ9F8V2	BZX84C8V2L	BZX84B8V2L	MM3Z8V2	MM3Z8V2	MM5Z8V2	MM5Z8V2	MMSZ4694	MMSZ8V2	MMSZ5237B	1SMA5923B	1SMB5923B
9.1	NZ9F9V1	NZ9F9V1	BZX84C9V1L	BZX84B9V1L	MM3Z9V1	MM3Z9V1	MM5Z9V1	MM5Z9V1	MMSZ4696	MMSZ9V1	—	1SMA5924B	1SMB5924B
10	NZ9F10V	NZ9F10V	BZX84C10L	—	MM3Z10V	MM3Z10V	MM5Z10V	—	MMSZ4697	MMSZ10	MMSZ5240B	1SMA5925B	1SMB5925B
11	NZ9F11V	NZ9F11V	BZX84C11L	—	MM3Z11V	—	MM5Z11V	—	MMSZ4698	MMSZ11	—	—	1SMB5926B
12	NZ9F12V	NZ9F12V	BZX84C12L	BZX84B12L	MM3Z12V	MM3Z12V	MM5Z12V	MM5Z12V	MMSZ4699	MMSZ12	MMSZ5242B	1SMA5927B	1SMB5927B
13	NZ9F13V	NZ9F13V	BZX84C13L	—	MM3Z13V	MM3Z13V	MM5Z13V	—	—	MMSZ13	MMSZ5243B	1SMA5928B	1SMB5928B
14	—	—	—	—	—	—	—	—	MMSZ4701	—	MMSZ5244B	1SMA5929B	—
15	NZ9F15V	NZ9F15V	BZX84C15L	BZX84B15L	MM3Z15V	MM3Z15V	MM5Z15V	—	MMSZ4702	MMSZ15	MMSZ5245B	—	1SMB5929B
16	NZ9F16V	NZ9F16V	BZX84C16L	BZX84B16L	MM3Z16V	MM3Z16V	MM5Z16V	MM5Z16V	MMSZ4703	MMSZ16	MMSZ5246B	1SMA5930B	1SMB5930B
17	—	—	—	—	—	—	—	—	MMSZ4704	—	MMSZ5247B	—	—
18	NZ9F18V	NZ9F18V	BZX84C18L	BZX84B18L	MM3Z18V	MM3Z18V	MM5Z18V	MM5Z18V	MMSZ4705	MMSZ18	MMSZ5248B	1SMA5931B	1SMB5931B
19	—	—	—	—	—	—	—	—	MMSZ4706	—	MMSZ5249B	—	—
20	NZ9F20V	—	BZX84C20L	—	MM3Z20V	—	MM5Z20V	—	MMSZ4707	MMSZ20	MMSZ5250B	1SMA5932B	1SMB5932B
22	NZ9F22V	—	BZX84C22L	BZX84B22L	MM3Z22V	MM3Z22V	MM5Z22V	—	—	MMSZ22	—	1SMA5933B	1SMB5933B
24	NZ9F24V	—	BZX84C24L	BZX84B24L	MM3Z24V	MM3Z24V	MM5Z24V	—	MMSZ4709	MMSZ24	MMSZ5252B	1SMA5934B	1SMB5934B
27	—	—	BZX84C27L	BZX84B27L	MM3Z27V	MM3Z27V	MM5Z27V	—	MMSZ4711	MMSZ27	MMSZ5254B	1SMA5935B	1SMB5935B
30	—	—	BZX84C30L	—	MM3Z30V	MM3Z30V	MM5Z30V	—	MMSZ4713	MMSZ30	MMSZ5256B	1SMA5936B	1SMB5936B
33	—	—	BZX84C33L	—	MM3Z33V	MM3Z33V	MM5Z33V	—	MMSZ4714	MMSZ33	MMSZ5257B	1SMA5937B	1SMB5937B
36	—	—	BZX84C36L	—	MM3Z36V	MM3Z36V	MM5Z36V	—	MMSZ4715	MMSZ36	MMSZ5258B	1SMA5938B	1SMB5938B
39	—	—	BZX84C39L	—	MM3Z39V	MM3Z39V	MM5Z39V	—	—	MMSZ39	MMSZ5259B	1SMA5939B	1SMB5939B
43	—	—	BZX84C43L	—	MM3Z43V	—	MM5Z43V	—	MMSZ4717	—	MMSZ5260B	1SMA5940B	1SMB5940B
47	—	—	BZX84C47L	—	MM3Z47V	—	MM5Z47V	—	—	—	MMSZ5261B	1SMA5941B	1SMB5941B
51	—	—	BZX84C51L	—	MM3Z51V	—	MM5Z51V	—	—	—	MMSZ5262B	1SMA5942B	1SMB5942B
56	—	—	BZX84C56L	—	MM3Z56V	—	MM5Z56V	—	—	—	—	1SMA5943B	1SMB5943B
62	—	—	BZX84C62L	—	—	—	MM5Z62V	—	—	—	MMSZ5265B	—	1SMB5944B
68	—	—	BZX84C68L	—	MM3Z68V	—	MM5Z68V	—	—	—	MMSZ5266B	1SMA5945B	1SMB5945B
75	—	—	BZX84C75L	—	MM3Z75V	—	MM5Z75V	—	—	—	MMSZ5267B	—	1SMB5946B
82	—	—	—	—	—	—	—	—	—	—	—	—	1SMB5947B
100	—	—	—	—	—	—	—	—	—	—	—	—	1SMB5949B

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

ZENER DIODE ARRAYS

	Device	V _{BR} Typ (V)	V _{RWM} Max (V)	I _R Max (μA)	I _{PP} Max* (A)	V _C Max (V)	Package(s)
Dual Common Cathode	MMBZ15VDL	15	12.8	0.1	1.9	21.2	SOT-23
	MMBZ27VCL	27	22	0.05	1	38	
Dual Common Anode	MMBZ5V6AL	5.6	3	5	3	8	
	MMBZ6V2AL	6.2	3	0.5	2.76	8.7	
	MMBZ6V8AL	6.8	4.5	0.5	2.5	9.6	
	MMBZ9V1AL	9.1	6	0.3	1.7	14	
	MMBZ12VAL	12	8.5	0.2	2.35	17	
	MMBZ15VAL	15	12	0.05	1.9	21	
	MMBZ16VAL	15.20	16	16.80	1.7	23	
	MMBZ16VTAL	15.68	16	16.32	1.7	23	
	MMBZ18VAL	18	14.5	0.05	1.6	25	
	MMBZ20VAL	20	17	0.05	1.4	28	
	MMBZ27VAL	27	22	0.05	1	40	
	MMBZ33VAL	33	26	0.05	0.87	46	
	MMBZ47VAL	44.65	47	49.35	0.74	54	
	MMBZ47VTAL	46.06	47	47.94	0.74	54	
Dual Common Cathode	MMBZ27VCW	27	22	0.05	1	38	SC-70
Dual Common Anode	MMBZ27VAW	27	22	0.05	1	40	
Quad	MMQA5V6	5.6	—	—	—	—	SC-74
	MMQA6V2	6.2	—	—	—	—	
	MMQA6V8	6.8	—	—	—	—	
	MMQA15V	15	—	—	—	—	
	MMQA20V	20	—	—	—	—	
	MMQA27V	27	—	—	—	—	
	MMQA33V	33	—	—	—	—	
	MSQA6V1	6.1	—	—	—	—	SC-88

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * I_{PP} Max rating based on 10 x 1000 μs surge waveform.

TRANSIENT VOLTAGE SUPPRESSORS

	Device	V _{BR} Typ (V)	V _{RWM} Max (V)	I _R Max (μA)	I _{PP} Max* (V)	V _C Max (V)	Package(s)
Unidirectional	1SMA16A	18.75	16	2.5	15.4	26	SMA
	1SMA20A	23.35	20	2.5	12.3	32.4	
	1SMA24A	28.1	24	2.5	10.3	38.9	
	1SMA26A	30.4	26	2.5	9.5	42.1	
	1SMA28A	32.75	28	2.5	8.8	45.4	
	1SMA30A	35.05	30	2.5	8.3	48.4	
	1SMA33A	38.65	33	2.5	7.5	53.3	
	1SMA36A	42.1	36	2.5	6.9	58.1	
	1SMA40A	46.75	40	2.5	6.2	64.5	
	1SMA43A	50.3	43	2.5	5.8	69.4	
	1SMA70A	81.9	70	2.5	3.5	113	
	1SMA460A	540	460	1	0.41	<700	
	NS6A5.0AF	6.70	5	800	65.2	9.2	SMA-FL
	NS6A12AF	14.00	12	5	30.2	19.9	
	NS6A13AF	15.15	13	5	27.9	21.5	
	NS6A28AF	32.75	28	5	12.4	45.4	
	NS6A33AF	38.65	33	5	11.3	53.3	
	NS6A64AF	74.85	64	5	5.8	103	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * I_{PP} Max rating based on 10 x 1000 μs surge waveform.

TRANSIENT VOLTAGE SUPPRESSORS

	Device	V _{BR} Typ (V)	V _{RWM} Max (V)	I _R Max (μA)	I _{PP} Max* (V)	V _C Max (V)	Package(s)
Unidirectional	1SMB5A	6.7	5	800	65.2	9.2	SMB
	1SMB7.5A	8.77	7.5	800	46.5	12.9	
	1SMB12A	14	12	5	30.2	19.9	
	1SMB14A	16.4	14	5	25.8	23.2	
	1SMB15A	17.6	15	5	24	24.4	
	1SMB18A	21.05	18	5	20.5	29.2	
	1SMB22A	25.65	22	5	16.9	35.5	
	1SMB24A	28.1	24	5	15.4	38.9	
	1SMB26A	30.4	26	5	14.2	42.1	
	1SMB28A	32.75	28	5	13.2	45	
	1SMB30A	35.05	30	5	12.4	48.4	
	1SMB33A	38.65	33	5	11.3	53.3	
	1SMB36A	42.1	36	5	10.3	58.1	
	1SMB43A	50.3	43	5	8.6	69.4	
	1SMB48A	56.1	48	5	7.7	77.4	
	1SMB58A	67.8	58	5	6.4	93.6	
	P6SMB6.8A	6.8	5.8	1000	57	10.5	
	P6SMB12A	12	10.2	5	36	16.7	
	P6SMB15A	15.05	12.8	5	28	21.2	
	P6SMB16A	16	13.6	5	27	22.5	
	P6SMB18A	18	15.3	5	24	25.2	
	P6SMB20A	20	17.1	5	22	27.7	
	P6SMB22A	22	18.8	5	20	30.6	
	P6SMB27A	27.05	23.1	5	16	37.5	
	P6SMB30A	30	25.6	5	14.4	41.4	
	P6SMB33A	33	28.2	5	13.2	45.7	
	P6SMB36A	36	30.8	5	12	49.9	
	P6SMB39A	39	33.3	5	11.2	53.9	
	P6SMB47A	47	40.2	5	9.3	64.8	
	P6SMB51A	51.05	43.6	5	8.6	70.1	
	P6SMB56A	56	47.8	5	7.8	77	
	P6SMB62A	62	53	5	4.8	125	
	P6SMB68A	68	58.1	5	6.5	92	
	P6SMB150A	150	128	5	2.9	207	
	P6SMB160A	160	136	5	2.7	219	
	P6SMB180A	180	154	5	2.4	246	
	P6SMB200A	200	171	5	2.2	274	
	1.5SMC15A	15	12.8	5	71	21.2	SMC
	1SMC16A	18.75	16	5	57.7	26	
	1.5SMC16A	16	13.6	5	67	22.5	
	1SMC17A	19.9	17	5	27.6	53.3	
	1SMC20A	23.35	20	5	32.4	46.3	
	1.5SMC20A	20	17.1	5	54	27	
	1SMC22A	25.65	22	5	42.2	35.5	
	1.5SMC24A	24	20.5	5	45	33.2	
	1SMC24A	28.1	24	5	38.6	38.9	
	1SMC26A	30.4	26	5	35.6	42.1	
	1.5SMC27A	27	23.1	5	40	37.5	
	1.5SMC30A	30	25.6	5	36	41.4	
	1SMC30A	35.05	30	5	31	48.4	
	1.5SMC33A	33	28.2	5	33	45.7	
	1SMC33A	38.65	33	5	28.1	53.3	
	1SMC36A	42.1	36	5	25.8	58.1	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * I_{PP} Max rating based on 10 x 1000 μs surge waveform.

TRANSIENT VOLTAGE SUPPRESSORS

	Device	V _{BR} Typ (V)	V _{RWM} Max (V)	I _R Max (μA)	I _{pp} Max* (V)	V _C Max (V)	Package(s)
Unidirectional	1.5SMC36A	36	30.8	5	30	49.9	SMC
	1.5SMC39A	39	33.3	5	28	53.9	
	1SMC40A	46.75	40	5	32.2	64.5	
	1.5SMC43A	43	36.8	5	25.3	59.2	
	1.5SMC47A	47	40.2	5	23.2	64.8	
	1SMC51A	59.7	51	5	18.2	82.4	
	1.5SMC51A	51	43.6	5	21.4	70.1	
	1.5SMC62A	62	53	5	17.7	85	
	SMF12C	13.8	12	0.1	6	23	SC-88
	SM05T1	6.8	5	1	17	9.8	SOD-123FL
	SMF14A	16.4	14	1	8.6	23.2	
	SMF15A	17.6	15	1	8.2	24.4	
	SMF18A	21	18	1	6.8	29.2	
	SMF20A	23.35	20	1	6.2	32.4	
	SMF22A	25.6	22	1	5.6	35.5	
	SMF24A	29.5	24	1	5.1	38.9	
	SMF26A	30.4	26	1	4.8	42.1	
	SMF28A	32.8	28	1	4.4	45.4	
	SMF30A	35.1	30	1	4.1	48.4	
	SMF33A	38.7	33	1	3.8	53.3	
	SMF36A	42.1	36	1	3.4	58.1	
	SMF48A	56.1	48	1	2.6	77.4	
	SMF58A	67.8	58	1	2.1	93.6	
Bidirectional	1SMA15CA	17.85	15	2.5	—	24.4	SMA
	1SMA16CA	18.75	16	2.5	—	26	
	1SMA24CA	28.1	24	2.5	—	38.9	
	1SMA26CA	30.42	26	2.5	—	42.1	
	1SMA28CA	32.74	28	2.5	—	45.4	
	1SMA33CA	38.63	33	2.5	—	53.3	
	1SMA40CA	46.74	40	2.5	—	64.5	
	P6SMB22CA	22	18.8	5	—	30.6	SMB
	P6SMB30CA	30	25.6	5	—	41.4	
	P6SMB33CA	33	28.2	5	—	45.7	
	P6SMB36CA	36	30.8	5	—	49.9	
	P6SMB39CA	39	33.3	5	—	53.9	
	P6SMB43CA	43	36.8	5	—	59.3	
	P6SMB51CA	51	43.6	5	—	70.1	
	P6SMB62CA	62	53	5	—	85	
	1SMB13CA	15.16	13	5	—	21.5	
	1SMB15CA	17.58	15	5	—	24.4	
	1SMB16CA	18.74	16	5	—	26	
	1SMB24CA	28.11	24	5	—	38.9	
	1SMB26CA	30.42	26	5	—	42.1	
	1SMB28CA	32.74	28	5	—	45.4	
	1SMB30CA	35.06	30	5	—	48.4	
	1SMB33CA	38.63	33	5	—	53.3	
	1SMB36CA	42.1	36	5	—	58.1	
	1SMB43CA	50.3	43	5	—	69.4	
	1SMB58CA	67.79	58	5	—	93.6	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * I_{pp} Max rating based on 10 x 1000 μs surge waveform.

ESD PROTECTION DEVICES

	Device	V _{BR} Min (V)	V _{RWM} Max (V)	I _R Max (μA)	I _{pp} Max* (A)	V _C Max (V)	C Max (pF)	No of Channels	Topology	ESD IEC61000 4-2 (Contact/Air)	Applications	Package(s)
IVN	NUP1105	25.7	24	0.1	8	44	30	1	Bidirectional	±30 kV/±30 kV	LIN and LS CAN	SOT-23
	NUP2105	26.2	24	0.1	8	44	30	2	Bidirectional	±30 kV/±30 kV	HS CAN	
	ESDonCAN1	26.2	24	0.1	3	50	10	2	Bidirectional	±23 kV/±23 kV	HS CAN, CAN-FD	
	NUP3105	35.6	32	0.1	10	44	30	2	Bidirectional	±30 kV/±30 kV	24V System CAN	
	NUP2115	26.2	24	0.1	3	50	10	2	Bidirectional	±23kV/±23 kV	FlexRay	SOT-323
	NUP2125	26.2	24	0.1	3	50	15	2	Bidirectional	±30kV/±30kV	HS CAN, CAN-FD	
	NUP2114	5.5	5	1	12	12	1	2	Unidirectional	±8 kV/±15 kV	Ethernet	TSOP-6
High Speed Data Line Protection	NUP2114	5.5	5	1	12	12	1	2	Unidirectional	±8 kV/±15 kV	Gigabit Ethernet, HDMI, USB2.0	TSOP-6
	NUP4114	5.5	5	1	12	12.1	0.6	4	Unidirectional	±8 kV/±15 kV	LVDS, USB2.0, Gigabit Ethernet	
	NUP1301	70	—	2.5	—	—	0.9	1	Bidirectional	±8 kV/±15 kV	GHz speed I/Os	SOT-23
	ESD7272**	27	24	1	1	30	2	2	Unidirectional	±8 kV/±15 kV	MHz Speed I/O's Varistor Replacement	
	NUP2301	70	—	2.5	2	—	3	2	Bidirectional	±8 kV/±15 kV	MHz speed I/Os - I2C, USB2.0	SC-88
	NUP4301	70	—	2.5	2	—	3	4	Bidirectional	±8 kV/±15 kV	MHz speed I/Os - I2C, USB2.0	SC-74
	NUP4304	70	—	2.5	2	—	1.5	4	Bidirectional	±8 kV/±15 kV	MHz speed I/Os - I2C, USB2.0	TSOP-6
	NUP4016	5.5	5	1	—	—	0.8	4	Unidirectional	±15 kV/±15 kV	USB2.0, Gigabit Ethernet	SOT-953
	SD12T1G	13.3	12	1	15	25	150	1	Unidirectional	±8 kV/±15 kV	Surge, Transients	SOD-323
	ESD5Z5.0	6.2	5	0.05	9.4	18.6	80	1	Unidirectional	±30 kV/±30 kV	MHz speed I/Os	SOD-523
	ESD5Z7.0	7.5	7	0.01	8.8	22.7	65	1	Unidirectional	±30 kV/±30 kV	MHz speed I/Os	
	ESD7002	16.5	5	1	—	—	0.5	2	Unidirectional	±8 kV/±15 kV	HDMI, USB3.0, LVDS	SC-70
	ESD7102***	16.5	5	1	—	—	0.5	2	Unidirectional	±8 kV/±15 kV	HDMI, USB3.0, LVDS	SC-75
	ESD7004	5.5	5	1	1	10	0.5	4	Unidirectional	±15 kV/±15 kV	HDMI, USB3.0, LVDS	UDFN10
	NIV1161	16.5	16	1	—	—	0.5	2	Unidirectional	±8 kV/±15 kV	USB 2.0/3.0, LVDS, HDMI Short to Battery Blocking	WDFN-6
	NIV2161**	16.5	16	1	—	—	0.5	2	Unidirectional	±8 kV/±15 kV	USB 2.0/3.0, LVDS, HDMI Short to GND/Battery Blocking	WDFN-10
	ESD7C5.0	11	5	0.5	—	—	6.2	2	Unidirectional	±8 kV/±15 kV	MHz speed I/Os	SOT-723
	ESD7205**	5.2	5	1	—	—	0.5	2	Unidirectional	±20 kV/±20 kV	USB 2.0, HDMI, APiX, Ethernet	
	ESD7371H	7	5.3	0.05	3	20	0.55	1	Unidirectional	±20 kV/± 20kV	GHz speed I/Os, Antennas	SOD-323
	ESD7351H	5	3.3	0.05	3	10	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	
	ESD8351H	5.5	3.3	1	3	6	0.55	1	Unidirectional	±15 kV/±15 kV	GHz speed I/Os, Antennas	
	ESD7361H	16.5	16	1	—	—	0.55	1	Unidirectional	±8 kV/±15 kV	GHz speed I/Os, Antennas	
	ESD7351XV2	5	3.3	0.05	3	10	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	SOD-523
	ESD8351XV2	5.5	3.3	1	3	6	0.55	1	Unidirectional	±15 kV/± 15kV	GHz speed I/Os, Antennas	
	ESD7361XV2	16.5	16	1	—	—	0.55	1	Unidirectional	±8 kV/± 15kV	GHz speed I/Os, Antennas	
	ESD7424**	26	24	1	—	—	1	1	Bidirectional	±30 kV/± 30kV	GHz speed I/Os, Antennas	
	ESD7410**	10	8	1	—	—	1	1	Bidirectional	±30 kV/± 30kV	GHz speed I/Os, Antennas	SOD-882
	ESD7551N2	6	3.3	0.05	3	12	0.4	1	Bidirectional	±20 kV/± 20kV	GHz speed I/Os, Antennas	
	ESD7421N2	16.5	16	0.5	1	—	0.6	1	Bidirectional	±12 kV/±15 kV	GHz speed I/Os, Antennas	
	ESD7571N2	7	5.3	0.05	3	20	0.3	1	Bidirectional	±20 kV/± 20kV	GHz speed I/Os, Antennas	
	ESD8551N2	5.5	3.3	1	3	9	0.3	1	Bidirectional	±15 kV/±15 kV	GHz speed I/Os, Antennas	
	ESD7462N2	16.5	16	0.1	1	30	0.55	1	Bidirectional	±18 kV/±18 kV	GHz speed I/Os, Antennas	
	ESD7351	5	3.3	0.05	3	10	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	
	ESD7361P2	16.5	16	1	—	—	0.55	1	Unidirectional	±8 kV/±15 kV	GHz speed I/Os, Antennas	SOD-923
	ESD7371P2	7	5.3	0.05	3	20	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	
	ESD8351P2	5.5	3.3	1	3	6	0.55	1	Unidirectional	±15 kV/±15 kV	GHz speed I/Os, Antennas	
	ESD9L3.3	4.8	3.3	1	1	9	0.9	1	Bidirectional	±10 kV/±15 kV	GHz speed I/Os	
	ESD9L5.0S	5.4	5	1	1	9.8	0.9	1	Bidirectional	±10 kV/±15 kV	RF Antenna, GHz speed I/Os	
	ESD9B5.0	5.8	5	1	1	12.5	15	1	Bidirectional	±18 kV/±18 kV	MHz speed I/Os	
	ESD9X5.0S	6.2	5	1	8.7	12.3	65	1	Unidirectional	±30 kV/±30 kV	MHz speed I/Os	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * I_{pp} Max rating based on 10 x 1000 μs surge waveform. ** Pending 3Q16. *** Pending 4Q16.

ESD & EMI FILTERS

	Device	Network	Number of Channels	L or R Typ (H,Ω)	C Typ (pF)	V _(BR) Typ (V)	V _{RWM} Max (V)	ESD IEC61000 4-2 (Contact/Air)	Filter (f3dB) MHz	Differential Mode	Applications	Package(s)
CMF Differential	EMI4182MU	CMF	4	8 Ω	0.8	6.8	5	±15kV/±15kV	—	>700MHz attenuation	HDMI, DVI	UDFN10
	EMI4183MU	CMF	6	8 Ω	0.8	6.8	5	±15kV/±15kV	—	>700MHz attenuation	HDMI, DVI	UDFN16
	EMI4184MU	CMF	4	8 Ω	0.8	6.8	5	±15kV/±15kV	—	>700MHz attenuation	HDMI, DVI	UDFN20
	EMI8131MU	CMF	2	6 Ω	—	6.8	3.3	±15kV/±15kV	—	3dB > 2.5GHz	uSD, USB3.0	UDFN6
	EMI8132MU	CMF	4	6 Ω	—	6.8	3.3	±15kV/±15kV	—	3dB > 2.5GHz	uSD, USB3.0	UDFN10
	EMI8133MU	CMF	6	6 Ω	—	6.8	3.3	±15kV/±15kV	—	3dB > 2.5GHz	uSD, USB3.0	UDFN16
	EMI8141MUT	CMF	2	6 Ω	—	6.8	3.3	±15kV/±15kV	—	3dB > 5GHz	uSD, USB3.0	UDFN6
	EMI8142MUT	CMF	4	6 Ω	—	6.8	3.3	±15kV/±15kV	—	3dB > 5GHz	uSD, USB3.0	UDFN10
	EMI8143MUT	CMF	6	6 Ω	—	6.8	3.3	±15kV/±15kV	—	3dB > 5GHz	uSD, USB3.0	UDFN16
Single Ended	EMI2121	CMF	3	8 Ω	0.8	6.8	5	±12kV/±12kV	—	>700MHz attenuation	USB2.0	WDFN8
	CM1624	C-R-L-C	7	28 Ω, 1nH	20	6.8	5	±15kV/±15kV	300	—	uSD	UDFN16
	EMI7204MU	C-L-C	4	17nH	12	6.8	5	±16kV/±16kV	280	—	LCD	UDFN8
	EMI7206MU	C-L-C	6	17nH	12	6.8	5	±16kV/±16kV	280	—	LCD	UDFN12
	EMI7208MU	C-L-C	8	17nH	12	6.8	5	±16kV/±16kV	280	—	LCD	UDFN16
	EMI9404MU	C-L-C-L-C	4	35nH	1.8, 4.7, 6	7.3	5	±14kV/±16kV	343	—	800MHz-2.7GHz attenuation	UDFN8
	EMI9406MU	C-L-C-L-C	6	35nH	1.8, 4.7, 6	7.3	5	±14kV/±16kV	343	—	800MHz-2.7GHz attenuation	UDFN12
	EMI9408MU	C-L-C-L-C	8	35nH	1.8, 4.7, 6	7.3	5	±14kV/±16kV	343	—	800MHz-2.7GHz attenuation	UDFN16
	NUF4401MN	C-R-C	4	200 Ω	30	7	5	±15kV/±15kV	125	—	Audio, Video, General IO	DFN8
	NUF4402MN	C-R-C	4	100 Ω	24	7	5	±14kV/±14kV	151	—	Audio, Video, General IO	DFN8
	NUF4403MN	C-R-C	4	100 Ω	34	7	5	±18kV/±18kV	105	—	Audio, Video, General IO	DFN8
	NUF6401MN	C-R-C	6	100 Ω	34	7	5	±15kV/±15kV	110	—	Audio, Video, General IO	DFN12
	NZF220DFT1G	C-R-C	2	100 Ω	22	7	5	±8kV/±8kV	220	—	Audio, Clock Lines	SC88
	NZF220TT1	C-R-C	1	100 Ω	22	7	5	±8kV/±8kV	220	—	Audio, Clock Lines	SC75

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. NOTE: Ipp Max rating based on 8/20 μs surge waveform.

M-LVDS DRIVERS & RECEIVERS

Device	V _{CC} Typ (V)	Operating Temperature (°C)	Signaling Rate (Mbps)	Input/Output Type	Driver Propagation Delay Max (ns)	Driver Rise/Fall Time Max (ns)	Driver RMS Period Jitter Max (ps)	Receiver Type	Receiver Propagation Delay Max (ns)	Receiver Rise/Fall Time Max (ns)	Receiver RMS Period Jitter Max (ps)
NBA3N200S	3.3	-40 to 125	200	LVCMS/MLVDS	2.4	1.6	3.5	Type 1	6	2.3	8
NBA3N201S	3.3	-40 to 125	200	LVCMS/MLVDS	2.4	1.6	3.5	Type 1	6	2.3	8
NBA3N206S	3.3	-40 to 125	200	LVCMS/MLVDS	2.4	1.6	3.5	Type 2	6	2.3	8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

CMOS IMAGE SENSORS

Device	Sensor/SOC	Resolution (MP)	Optical Format	Frame Rate	Pixel Size (μm)	Shutter Type	CFA	Operating Temp (°C)
ASX350AT	SOC	VGA	1/5"	60 fps digital, 30 fps analog	3.8	Electronic Rolling Shutter	Color	-40 to +105
ASX340AT	SOC	VGA	1/4"	60 fps digital, 30 fps analog	5.6	Electronic Rolling Shutter	Color	-40 to +105
MT9V128	SOC	VGA	1/3"	60 fps	6.0	Electronic Rolling Shutter	Color	-40 to +105
MT9V024	Sensor	WVGA	1/3"	60 fps	6.0	Global Shutter	Color, Mono, RCCC	-40 to +105
ARX550AT	Sensor	0.5	1/5"	66 fps	3.8	Electronic Rolling Shutter	Color, RCCC	-40 to +105
AR0140AT	Sensor	1.0	1/4"	60 fps	3.0	Electronic Rolling Shutter	Color	-40 to +105
AR0132AT	Sensor	1.2	1/3"	1.2 45 fps, 720p 60 fps	3.8	Electronic Rolling Shutter	Color, Mono, RCCC	-40 to +105

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

IMAGE CO-PROCESSORS

Device	Maximum Resolution	Supported Sensors	Frame Rate	HDR with ALTM	Dewarp	Spatial Transform Engine Software Add-on	Overlays	GPIOs	Sensor Interfaces	Output Interfaces	Input Clock (MHz)	Output Clock	Operating Temp (°C)	Package
AP0100	1.2 MP	AR0132AT, AR0140AT, ARX550AT	1.2 MP 45 fps 720p60	YES	YES, Up to 165°	YES, Multiple viewing options, PTZ	YES	Up to 5	2-lane HiSPI, 12-bit parallel	NTSC/PAL, 16-bit parallel	6-30	27 MHz (NTSC/PAL) 84 MHz parallel	-30 to +70 (CS Version) -40 to +105 (AT Version)	VFBGA-100
AP0101	1.2 MP	AR0132AT, AR0140AT, ARX550AT	1.2 MP 45 fps	YES	NO	NO	NO	Up to 5	12-bit parallel	16-bit parallel	6-30	84 MHz parallel	-30 to +70 (CS Version) -40 to +105 (AT Version)	VFBGA-81

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

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