CMPSH-3A CMPSH-3C CMPSH-3S

SURFACE MOUNT SILICON SCHOTTKY DIODES



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3 series types are Silicon Schottky diodes designed for surface mount fast switching applications requiring a low forward voltage drop.



The following configurations are available:

CMPSH-3	SINGLE	MARKING CODE: D95
CMPSH-3A	DUAL, COMMON ANODE	MARKING CODE: DB1
CMPSH-3C	DUAL, COMMON CATHODE	MARKING CODE: DB2
CMPSH-3S	DUAL, IN SERIES	MARKING CODE: DA5

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	I _F	100	mA
Peak Repetitive Forward Current	I _{FRM}	350	mA
Peak Forward Surge Current, tp=10ms	I _{FSM}	750	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

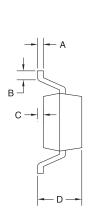
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =25V		90	500	nA
I_{R}	V _R =25V, T _A =100°C		25	100	μΑ
BV_R	I _R =100μA	30			V
V_{F}	I _F =2.0mA		0.29	0.33	V
V_{F}	I _F =15mA		0.40	0.45	V
V_{F}	I _F =100mA		0.74	1.00	V
C_T	V _R =1.0V, f=1.0MHz		7.0		pF
t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=1.0$ mA, $R_L=100$ Ω			5.0	ns

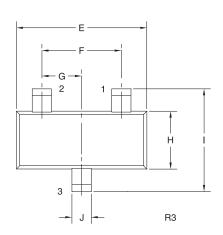
CMPSH-3 CMPSH-3A CMPSH-3C CMPSH-3S

SURFACE MOUNT SILICON SCHOTTKY DIODES



SOT-23 CASE - MECHANICAL OUTLINE

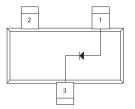




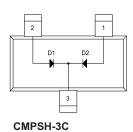
DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.003	0.007	0.08	0.18	
В	0.006	-	0.15	-	
С	ı	0.005	-	0.13	
D	0.035	0.043	0.89	1.09	
E	0.110	0.120	2.80	3.05	
F	0.075		1.90		
G	0.037		0.95		
Н	0.047	0.055	1.19	1.40	
	0.083	0.098	2.10	2.49	
J	0.014	0.020	0.35	0.50	
COT 22 (DEV/, D2)					

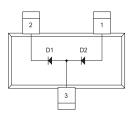
SOT-23 (REV: R3)

PIN CONFIGURATIONS









CMPSH-3

LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

CMPSH-3A

LEAD CODE:

- 1) Cathode D2
- 2) Cathode D1
- 3) Anode D1, D2

LEAD CODE:

- 1) Anode D2 2) Anode D1
- 3) Cathode D1, D2

CMPSH-3S

LEAD CODE:

- 1) Anode D2
- 2) Cathode D1
- 3) Anode D1, Cathode D2

MARKING CODE: D95

MARKING CODE: DB1

MARKING CODE: DB2

MARKING CODE: DA5

R6 (27-January 2010)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

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- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

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- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- · Package details
- · Application notes
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CONTACT US

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