

MC9S12A256BCFU Information

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General Information

Parameter	Value
Part Number	MC9S12A256BCFU
Description	256K FLASH HCS12 MCU
PTI	JCJD
Material Type	Tested Packaged Device
Life Cycle Description (code)	REMOVED FROM ACTIVE PORTFOLIO
Status	No Longer Manufactured

Package Information

Parameter	Value
Package Description	QFP 80 14*14*2.2P0.65
JEDEC Pkg Description	PQFP-G80
Pin/Lead/Ball Count	80
Package Material	Plastic
Mounting Style	Surface Mount
Tape & Reel	No

Environmental and Compliance Information

Parameter	Value
Pb-Free	No
RoHS Compliant	No
Material Composition Declaration (MCD)	Download IPC-1752 Report
RoHS Certificate of Analysis (CoA)	Download RoHS CoA Report
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Package Peak Temperature (°C)	220

Replacement Parts information for MC9S12A256BCFU

Device Device

Replacement Part	Replacement Type	Replacement Reason	Status	Sample Availability	Production Availability	Further Replacements	Replacement Part Details
MC9S12A256CFUE	-	REGULATORY OR LEGAL CHANGE	Active	Oct 2005	Oct 2005	-	

Manufacturing and Qualification information

Parameter	Value
Micron Size (µm)	.25

Ordering Information

Parameter	Value
Last Order Date	25 May 2006
Last Ship Date	08 Dec 2006
Export Control Classification Number (US)	EAR99
Harmonized Tariff (US) Disclaimer	8542.31.0000
Budgetary Price QTY 1000+ (\$US)	\$11.50

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
11886	Product Discontinuance	TSPG MCD16 EOL OF SELECTED 0.25UM S12	15 Feb 2006	15 Feb 2006
11478	Update Notification	TSPG MCD16 EOL OF SELECTED 0.25UM S12	27 Dec 2005	30 Jan 2006
11581	Product Change Notice	NEW TRAY INTRODUCTION FOR QFP 14X14X2.2	29 Nov 2005	27 Feb 2006
11462	Product Bulletin	TSPG MCD ROHS COMPLIANT DEVICE MIGRATION	14 Oct 2005	15 Oct 2005
11431	Product Bulletin	TSPG MCD ROHS COMPLIANT DEVICE MIGRATION	04 Oct 2005	05 Oct 2005
11366	Product Discontinuance	TSPG MCD16 EOL OF SELECTED 0.25UM S12	27 Sep 2005	27 Sep 2005
11221	Product Change Notice	TSPG MCD16 EOL OF SELECTED 0.25UM S12	30 Aug 2005	28 Nov 2005
10963	Product Bulletin	ADDITION OF NEW REEL SUPPLIERS	20 May 2005	21 May 2005
10742	Product Bulletin	KLM PACKING CHANGE FOR TRAY DEVICES	28 Mar 2005	02 Apr 2005
10451	Product Change Notice	TRAY MATERIAL CHANGE FOR MQFP 1414 2.2.	15 Nov 2004	13 Feb 2005
10302	Product Bulletin	TSPG 8/16 BIT TRIO TECH B/I CAPACITY	07 Oct 2004	08 Oct 2004
9545	Update Notification	UPDATE - MC QUAL OF 0.25 MICRON MC9S12C32	16 Feb 2004	17 Feb 2004
9382	Product Bulletin	14X14X2.2 QFP NEW CARRIER TAPE	02 Dec 2003	03 Dec 2003
9291	Update Notification	UPDATE - MC QUAL OF 0.25 MICRON MC9S12C32	27 Oct 2003	28 Oct 2003
9087	Product Bulletin	ADVANCE NOTIFICATION OF S12 BI REDUCTION	21 Aug 2003	22 Aug 2003
9100	Product Bulletin	MC QUAL OF 0.25 MICRON MC9S12C32	19 Aug 2003	20 Aug 2003

9048	Product Bulletin	TIC SUPPORT FOR QUALITY QUERIES IN EMEA	04 Aug 2003	05 Aug 2003
8982	Update Notification	FINAL MFG CONTRACT TEST QUAL. UPDATE	24 Jun 2003	25 Jun 2003
8886	Product Bulletin	REDESIGN OF NH1414 2.2 14X14 MQFP TRAY	19 May 2003	20 May 2003
8845	Product Change Notice	TSPG 8/16BIT FLASH HCS12 LRAE	02 May 2003	02 Aug 2003
8662	Product Change Notice	MC9S12DX256/DX128 AMBIENT TEST ELIM.	24 Mar 2003	14 Apr 2003
8622	Update Notification	FINAL MFG CONTRACT TEST QUAL. UPDATE	10 Mar 2003	11 Mar 2003
8479	Product Change Notice	BARRACUDA AMBIENT TEST ELIMINATION	27 Jan 2003	14 Apr 2003
8478	Update Notification	FINAL MFG CONTRACT TEST QUAL. UPDATE	27 Jan 2003	28 Jan 2003
8343	Update Notification	FINAL MFG CONTRACT TEST QUALIFICATION UPDATE	13 Dec 2002	14 Dec 2002
8118	Product Bulletin	FINAL MFG CONTRACT TEST QUALIFICATION	10 Oct 2002	11 Oct 2002
7856	Product Bulletin	14X14 QFP ASSY MOVE FROM SHC TO KLM, PT 2 OF 2	05 Aug 2002	06 Aug 2002
7659	Product Bulletin	BARRACUDA2-1K79X ERRATA UPDATE	21 Jun 2002	22 Jun 2002

Operating Characteristics

Parameter	Value
A/D Converter - Bits (bit)	10 10
A/D Converter - Channels	2 3
A/D Converter-Y/N	Yes
Additional Features	External Memory Controller Internal Clock Generator
Ambient Operating Temperature (Ta) (Min) (oC)	-40
Ambient Operating Temperature (Ta) (Max) (oC)	85
Bus Frequency (Max) (MHz)	25
EEPROM (kByte)	4
I/O Pins	59
Internal Flash (kByte)	262.144
Internal RAM (kByte)	12.288
Pulse Width Modulators - Bits (bit)	8 16
Pulse Width Modulators - Channels	8 4
Serial Interface - Number of Interfaces	2 3 1
Serial Interface - Type	SCI SPI I2C

Standby Function	STOP WAIT
Supply Voltage (Typ) (V)	5
Timers - Channels	8
Timers - Size (bit)	16