

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 |

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|------|-----------------------|--|-------------|-------------|
| 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 |

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