

MC9S08DZ60CLC Information

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General Information

| Parameter                      | Value                                                                  |
|--------------------------------|------------------------------------------------------------------------|
| Part Number                    | MC9S08DZ60CLC                                                          |
| Description                    | 60K FLASH, 4K RAM, 32PIN                                               |
| Product Line                   | G9FZDZ61                                                               |
| PTI                            | JDTD                                                                   |
| Material Type                  | Tested Packaged Device                                                 |
| Life Cycle Description (code)  | REMOVED FROM ACTIVE PORTFOLIO                                          |
| Status                         | Migration Complete. No Longer Manufactured. View <a href="#">PCN</a> . |
| Application/Qualification Tier | 10-YEARS APPLICATION LIFE                                              |

Package Information

| Parameter                                  | Value                               |
|--------------------------------------------|-------------------------------------|
| Package Description and Mechanical Drawing | <a href="#">LQFP 32 7*7*1.4P0.8</a> |
| Device Weight(g)                           | .18860                              |
| Package Material                           | Plastic                             |
| Mounting Style                             | Surface Mount                       |
| Package Length (nominal)(mm)               | 7.000                               |
| Package Width (nominal)(mm)                | 7.000                               |
| Package Thickness (nominal)(mm)            | 1.600                               |
| Maximum Height Above Board(mm)             | 1.600                               |
| Tape & Reel                                | No                                  |

Environmental and Compliance Information

| Parameter                               | Value                                                                                                                                                                                                                                           |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pb-Free                                 |                                                                                                                                                              |
| RoHS Compliant                          |                                                                                                                                                              |
| Halogen Free                            | Yes                                                                                                                                                                                                                                             |
| Material Composition Declaration (MCD)  | <a href="#">Download MCD Report</a>  <a href="#">Download MCD Report</a>  |
| RoHS Certificate of Analysis (CoA)      | <a href="#">Download RoHS CoA Report</a>                                                                                                                                                                                                        |
| 2nd Level Interconnect                  | e3                                                                                                                                                                                                                                              |
| Moisture Sensitivity Level (MSL)        | 3                                                                                                                                                                                                                                               |
| Floor Life                              | 168 HOURS                                                                                                                                                                                                                                       |
| Peak Package Body Temperature (PPT)(°C) | 260                                                                                                                                                                                                                                             |
| Maximum Time at Peak Temperature (s)    | 40                                                                                                                                                                                                                                              |
| Number of Reflow Cycles                 | 3                                                                                                                                                                                                                                               |
| REACH SVHC                              | <a href="#">Freescle REACH Statement</a>                                                                                                                                                                                                        |
| UL94 (plastics flammability test)       | V0: Burning stops within 10 seconds on a vertical specimen; no drips allowed                                                                                                                                                                    |

Replacement Parts information for MC9S08DZ60CLC

| Replacement Part | Replacement Type                                            | Replacement Reason        | Status | Device Sample Availability | Device Production Availability | Further Replacements | Replacement Part Details                                                              |
|------------------|-------------------------------------------------------------|---------------------------|--------|----------------------------|--------------------------------|----------------------|---------------------------------------------------------------------------------------|
| MC9S08DZ60A      | Same Form & Fit, Different Function, Pin-for-Pin Equivalent | New Product Qualification | Active | 03 Nov 2008                | 03 Nov 2008                    | -                    |  |

Manufacturing Information

| Parameter       | Value |
|-----------------|-------|
| Micron Size(?m) | .25   |

Ordering Information

| Parameter                                                              | Value                       |
|------------------------------------------------------------------------|-----------------------------|
| Last Order Date                                                        | 18 Dec 2009                 |
| Last Ship Date                                                         | 18 Dec 2010                 |
| Exempt from Minimum Delivery Value                                     | Yes                         |
| Export Control Classification Number (US)                              | 3A991                       |
| Harmonized Tariff (US) <a href="#">Disclaimer</a>                      | 8542.31.0000                |
| CCATS Document                                                         | -                           |
| ENC Status                                                             | -                           |
| Other Trade Compliance Documents                                       | -                           |
| Budgetary Price excluding tax(US\$)<br><a href="#">Change Currency</a> | -                           |
| Order                                                                  | <a href="#">Distributor</a> |

Product/Process Change Notice (PCN)

| Number | Type             | Title                                                                           | Issue Date  | Effectivity Date |
|--------|------------------|---------------------------------------------------------------------------------|-------------|------------------|
| 13796  | Product Bulletin | <a href="#">9S08 D-Family Consumer and Industrial Parts Burn-in Elimination</a> | 01 Sep 2009 | 02 Sep 2009      |
| 13438  | Device Migration | <a href="#">MSG8 MC9S08DZ/DV/DN Device Migration</a>                            | 18 Dec 2008 | 18 Dec 2008      |

Operating Characteristics

| Parameter                                      | Value                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Additional Features                            | Internal Voltage Regulator<br>COP<br>Analog Comparator<br>POR<br>Temperature Sensor<br>Low Voltage Detect |
| Ambient Operating Temperature (Min-Max) (°C)   | -40 to 85                                                                                                 |
| Bus Frequency (Max) (MHz)                      | 20                                                                                                        |
| Core: Type                                     | S08                                                                                                       |
| Device Production Availability                 | 03 Nov 2008                                                                                               |
| Device Sample Availability                     | 03 Nov 2008                                                                                               |
| EEPROM (KB)                                    | 2                                                                                                         |
| GPIOs                                          | 26                                                                                                        |
| Internal Flash (KB)                            | 60                                                                                                        |
| Internal RAM (KB)                              | 4                                                                                                         |
| Operating Frequency (Max) (MHz)                | 40                                                                                                        |
| Sample Exception Availability                  | N                                                                                                         |
| Serial Interface - Number of Serial Interfaces | 1<br>1<br>2<br>1                                                                                          |
| Serial Interface - Serial Interface Type       | CAN<br>I2C<br>SCI<br>SPI                                                                                  |
| Supply Voltage (Min-Max) (V)                   | 2.7 to 5.5                                                                                                |
| Timer Features                                 | Watchdog<br>PWM<br>Input Capture<br>Output Compare                                                        |
| Timer type                                     | Real Time Clock                                                                                           |
| Timers - Number of Timers                      | 1<br>1                                                                                                    |
| Timers - Timer Channels                        | 4<br>2                                                                                                    |
| Timers - Timer Size (bit)                      | 16<br>16                                                                                                  |

[Reliability Data Lookup](#)