

## MC9S08DV60AMLC Information

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### General Information

| Parameter                                      | Value  |
|--|--|
| Part Number                                    | MC9S08DV60AMLC                                       |
| Description                                    | S08DV 8-bit MCU, S08 core, 60KB Flash, 40MHz, QFP 32 |
| Product Line                                   | G9FZDZ61   |
| PTI  | MDTD   |
| Material Type                                  | Tested Packaged Device                               |
| <a href="#">Life Cycle Description (code)</a>  | PRODUCT MATURITY/SATURATION                          |
| Status   | Active   |
| <a href="#">Application/Qualification Tier</a> | 10-YEARS APPLICATION LIFE                            |

### Package Information

| Parameter                                  | Value                               |
|--|-------------------------------------|
| Package Type and Termination Count         | LQFP 32                             |
| 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   |
|--|---|
| <a href="#">Pb-Free</a>                                |    |
| <a href="#">RoHS Compliant</a>                         |    |
| <a href="#">Halogen Free</a>                           | Yes   |
| <a href="#">Material Composition Declaration (MCD)</a> | <a href="#">Download MCD Report</a>  <a href="#">Download MCD Report</a>  |
| RoHS Certificate of Analysis (CoA)                     | <a href="#">Download RoHS CoA Report</a>  |
| <a href="#">2nd Level Interconnect</a>                 | 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  |

### Manufacturing Information

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

### Ordering Information

| Parameter  | Value                           |
|--|---------------------------------|
| Minimum Package Quantity (MPQ)   | 1250                            |
| MPQ Container  | BRICK                           |
| Exempt from Minimum Delivery Value   | No                              |
| Preferred Order Quantity (POQ)   | 1250                            |
| POQ Container  | BOX                             |
| Leadtime (weeks)   | 8                               |
| Export Control Classification Number (US)  | 3A991                           |
| Harmonized Tariff (US) <a href="#">Disclaimer</a>                                      | 8542.31.0000                    |
| CCATS Document   | -                               |
| ENC Status   | -                               |
| Other Trade Compliance Documents   | -                               |
| <a href="#">Budgetary Price excluding tax(US\$)</a><br><a href="#">Change Currency</a> | 10000 @ US\$3.22 each           |
| Device Sample Availability   | 03 Nov2008                      |
| Device Production Availability   | 03 Nov2008                      |
| Order  | <a href="#">Similar Samples</a> |

### Product/Process Change Notice (PCN)

| Number | Type                  | Title   | Issue Date  | Effectivity Date |
|--------|-----------------------|---|-------------|------------------|
| 15932  | Product Change Notice | <a href="#">S08DZ60 (32ld) S08DZ128 (48ld) Copper Wire Qualification</a>        | 06 Nov 2013 | 06 Nov 2013      |
| 15375  | Product Bulletin      | <a href="#">DZ60 2M74K ERRATA DISTRIBUTION</a>                                  | 21 Sep 2012 | 22 Sep 2012      |
| 14886  | Product Bulletin      | <a href="#">S08DZ60 Input Hysteresis Tuning</a>                                 | 03 Oct 2011 | 12 Oct 2011      |
| 14726  | Product Change Notice | <a href="#">MC9S08DZ60 IMM Product Mask Revision</a>                            | 09 Jun 2011 | 07 Sep 2011      |
| 14515  | Product Change Notice | <a href="#">0.25UM Copper Wire Qualification</a>                                | 26 Apr 2011 | 10 Sep 2011      |
| 13796  | Product Bulletin      | <a href="#">9S08 D-Family Consumer and Industrial Parts Burn-in Elimination</a> | 01 Sep 2009 | 02 Sep 2009      |

### Operating Characteristics

| Parameter   | Value   |
|---|---|
| ADC (bit)   | 12  |
| ADC (ch)  | 10  |
| Additional Features                                   | COP<br>Low Voltage Detect<br>POR<br>Temperature Sensor<br>Internal Voltage Regulator<br>Analog Comparator |
| Ambient Operating Temperature (Min-Max) (°C)          | -40 to 125  |
| Bus Frequency (Max) (MHz)                             | 20  |
| CAN   | 1   |
| Core: Type  | S08   |
| GPIOs   | 26  |
| I2C   | 1   |
| Internal Flash (KB)                                   | 60  |
| Internal RAM (KB)                                     | 3   |
| Operating Frequency (Max) (MHz)                       | 40  |
| Sample Exception Availability                         | N   |
| SCI   | 2   |
| <b>Serial Interface</b> - Number of Serial Interfaces | 1<br>1<br>2<br>1  |
| <b>Serial Interface</b> - Serial Interface Type       | CAN<br>I2C<br>SCI<br>SPI  |
| SPI   | 1   |
| Supply Voltage (Min-Max) (V)                          | 2.7 to 5.5  |
| Timer Features  | Input Capture<br>Output Compare<br>PWM<br>Watchdog  |
| Timer type  | Real Time Clock   |
| <b>Timers</b> - Number of Timers                      | 1<br>1  |
| <b>Timers</b> - Timer Channels                        | 4<br>2  |
| <b>Timers</b> - Timer Size (bit)                      | 16<br>16  |

[Reliability Data Lookup](#)

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