

S9S12DJ12F1VPVE Information

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

General Information

| Parameter | Value |
|--|---|
| Part Number | S9S12DJ12F1VPVE |
| Description | 16-bit MCU, S12 core, 128KB Flash, 25MHz, -40/+105degC, Automotive Qualified, QFP 112 |
| Product Line | G9FSDJ1K |
| PTI | JCJD |
| Material Type | Tested Packaged Device |
| Life Cycle Description (code) | PRODUCT MATURITY/SATURATION |
| Status | Active |
| Application/Qualification Tier | AUTO; >=10 YEARS APPLICATION LIFE |

Package Information

| Parameter | Value |
|--|---|
| Package Type and Termination Count | LQFP 112 |
| Package Description and Mechanical Drawing | LQFP 112 20*20*1.4P0.65 |
| Device Weight(g) | 1.27830 |
| Package Material | Plastic |
| Mounting Style | Surface Mount |
| Package Length (nominal)(mm) | 20.000 |
| Package Width (nominal)(mm) | 20.000 |
| Package Thickness (nominal)(mm) | 1.000 |
| 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) | Download MCD Report  Download MCD Report  |
| RoHS Certificate of Analysis (CoA) | Download RoHS CoA Report |
| 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 | Freescale REACH Statement |
| 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) | 300 |
| MPQ Container | BRICK |
| Exempt from Minimum Delivery Value | No |
| Preferred Order Quantity (POQ) | 600 |
| POQ Container | BOX |
| Leadtime (weeks) | 12 |
| Export Control Classification Number (US) | EAR99 |
| Harmonized Tariff (US) Disclaimer | 8542.31.0000 |
| CCATS Document | - |
| ENC Status | - |
| Other Trade Compliance Documents | - |
| Budgetary Price excluding tax(US\$) Change Currency | 1 @ US\$12.72 each |
| Order | |

Product/Process Change Notice (PCN)

| Number | Type | Title | Issue Date | Effectivity Date |
|--------|-----------------------|---|-------------|------------------|
| 16253 | Product Change Notice | 0.25um ATMC and TSMCFAB3/11 KLM QFP Copper Wire and Leadframe Flag Conversion Qualification | 09 Jun 2014 | 09 Dec 2014 |
| 12298 | Product Change Notice | TSPG MCD16 9S12DX128 ROOM TEST REMOVAL | 12 Sep 2006 | 04 Sep 2006 |

Operating Characteristics

| Parameter | Value |
|--|--|
| ADC (bit) | 10 |
| ADC (ch) | 8 |
| Additional Features | COP Internal Voltage Regulator PLL |
| Ambient Operating Temperature (Min-Max) (°C) | -40 to 105 |
| Bus Frequency (Max) (MHz) | 25 |
| CAN | 2 |
| Core: Type | HCS12 |
| EEPROM (KB) | 2 |
| GPIOs | 91 |
| I2C | 1 |
| Internal Flash (KB) | 128 |
| Internal RAM (KB) | 8 |
| J1850 | 1 |
| PWM (bit) | 4 8 |
| PWM (ch) | 8 16 |
| Sample Exception Availability | N |
| SCI | 2 |
| Serial Interface - Number of Serial Interfaces | 2 2 1 1 2 |
| Serial Interface - Serial Interface Type | SCI SPI I2C J1850 CAN |
| SPI | 2 |
| Timers - Timer Channels | 8 |
| Timers - Timer Size (bit) | 16 |

[Reliability Data Lookup](#)

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