

MC56F82743VLC Information

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General Information

Parameter	Value
Part Number	MC56F82743VLC
Description	32-bit DSC, 56800EX core, 64KB Flash, 100MHz, QFP 32
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	10-YEARS APPLICATION LIFE

Package Information

Parameter	Value
Package Type and Termination Count	LQFP 32
Package Description and Mechanical Drawing	LQFP 32 7*7*1.4P0.8
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)	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	Freescle 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)	.09

Ordering Information

Parameter	Value
Minimum Package Quantity (MPQ)	250
MPQ Container	TRAY
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	1250
POQ Container	BOX
Leadtime (weeks)	8
Export Control Classification Number (US)	3A991
Harmonized Tariff (US) Disclaimer	8542.31.0000
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US\$) Change Currency	10000 @ US\$2.09 each
Order	<div style="text-align: center;"> <div style="background-color: #0070c0; color: white; padding: 5px; margin-bottom: 5px; display: inline-block;">Distributor</div> <div style="background-color: #e67e22; color: white; padding: 5px; margin-bottom: 5px; display: inline-block;">Buy Direct</div> Check Buy Availability <div style="background-color: #34495e; color: white; padding: 5px; margin-bottom: 5px; display: inline-block;">Sample</div> Check Sample Availability </div>

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
15901	Product Change Notice	MC56F827xxVLC and MC56F823xxVLC Maskset 2N33G Qualification	28 Oct 2013	26 Jan 2014

Operating Characteristics

Parameter	Value
ADC (bit)	12
ADC Conversion Time (ns)	800
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
Analog Comparator	3
Core: Performance in MIPS	100
Core: Type	56800 EX
DAC (bit)	6
DAC (ch)	3
Debug & Trace	JTAG
EEPROM (KB)	0
GPIOs	26
I2C	1
Independent PWM modules	1
Internal Flash (KB)	64
Internal RAM (KB)	8
Operating Frequency (Max) (MHz)	100
PWM (ch)	6
PWM resolution (ps)	312
QSCI	1
QSPI	1
Sample Exception Availability	Y
Serial Interface - Number of Serial Interfaces	1 1 0
Serial Interface - Serial Interface Type	QSCI QSPI I2C CAN
Supply Voltage (Min-Max) (V)	2.7 to 3.6
Total DMA Channels	4

[Reliability Data Lookup](#)