

MC9S08DN32AC LH Information				
Product Summary Page				
► General Information ► Package Information ► Environmental and Compliance Information ► Manufacturing Information ► Ordering Information ► Product/Process Change Notice (PCN) ► Operating Characteristics ► Reliability Data Lookup				
General Information				
Parameter		Value		
Part Number		MC9S08DN32AC LH		
Description		S08DN 8-bit MCU, S08 core, 32KB Flash, 40MHz, QFP 64		
Product Line		G9FZDZ63		
PTI		MDTD		
Material Type		Tested Packaged Device		
Life Cycle Description (code)		PRODUCT MATURITY/SATURATION		
Status		Active		
Application/Qualification Tier		10-YEARS APPLICATION LIFE		
Package Information				
Parameter		Value		
Package Type and Termination Count		QFP 64		
Package Description and Mechanical Drawing		LQFP 64 10*10*1.4P0.5		
Device Weight(g)		.34655		
Package Material		Plastic		
Mounting Style		Surface Mount		
Package Length (nominal)(mm)		10.000		
Package Width (nominal)(mm)		10.000		
Package Thickness (nominal)(mm)		1.400		
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		Freesc ale 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)		800		
MPQ Container		BRICK		
Exempt from Minimum Delivery Value		No		
Preferred Order Quantity (POQ)		800		
POQ Container		BRICK		
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\$2.82 each		
Device Sample Availability		03 Nov 2008		
Device Production Availability		03 Nov 2008		
Order		Similar Samples		
Product/Process Change Notice (PCN)				
Number	Type	Title	Issue Date	Effectivity Date
15710	Product Change Notice	S08DZ60 (48ld/64ld LQFP) S08DZ128 (64ld LQFP) Copper Wire Qualification	31 Jul 2013	18 Dec 2013
15375	Product Bulletin	DZ60 2M74K ERRATA DISTRIBUTION	21 Sep 2012	22 Sep 2012
14886	Product Bulletin	S08DZ60 Input Hysteresis Tuning	03 Oct 2011	12 Oct 2011
14726	Product Change Notice	MC9S08DZ60 IMM Product Mask Revision	09 Jun 2011	07 Sep 2011
14515	Product Change Notice	0.25UM Copper Wire Qualification	26 Apr 2011	10 Sep 2011
13796	Product Bulletin	9S08 D-Family Consumer and Industrial Parts Burn-in Elimination	01 Sep 2009	02 Sep 2009
Operating Characteristics				
Parameter		Value		
ADC (bit)		12		
ADC (ch)		16		
Additional Features		COP Low Voltage Detect POR Temperature Sensor Internal Voltage Regulator Analog Comparator		
Ambient Operating Temperature (Min-Max) (°C)		-40 to 85		
Bus Frequency (Max) (MHz)		20		
Core: Type		S08		
EEPROM (KB)		1		
GPIOs		54		
I2C		1		
Internal Flash (KB)		32		
Internal RAM (KB)		1.5		
Operating Frequency (Max) (MHz)		40		
Sample Exception Availability		N		
Serial Interface - Number of Serial Interfaces		1 1 1		
Serial Interface - Serial Interface Type		SCI SPI I2C		
SPI		1		
Supply Voltage (Min-Max) (V)		2.7 to 5.5		
Timer Features		Input Capture Output Compare PWM Watchdog		
Timer type		Real Time Clock		
Timers - Number of Timers		1 1		
Timers - Timer Channels		6 2		
Timers - Timer Size (bit)		16 16		
Reliability Data Lookup				
Downloaded from Arrow.com				