

MC9S08SH8CTJR Information

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General Information

Parameter	Value
Part Number	MC9S08SH8CTJR
Description	S08SH 8-bit MCU, S08 core, 8KB Flash, 40MHz, SOP 20
Product Line	G9TZSH82
PTI	MDTS
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT STABLE GROWTH/MATURITY
Status	Active
Application/Qualification Tier	10-YEARS APPLICATION LIFE

Package Information

Parameter	Value
Package Type and Termination Count	TSSOP 20
Package Description and Mechanical Drawing	TSSOP 20 4.4*6.5*1.P.65
Device Weight(g)	.08140
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal)(mm)	4.400
Package Width (nominal)(mm)	6.500
Package Thickness (nominal)(mm)	1.200
Maximum Height Above Board(mm)	1.200
Tape & Reel	Yes

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)	.25

Ordering Information

Parameter	Value
Minimum Package Quantity (MPQ)	2500
MPQ Container	REEL
Exempt from Minimum Delivery Value	No
Preferred Order Quantity (POQ)	2500
POQ Container	REEL
Leadtime (weeks)	8
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	10000 @ US\$1.06 each
Order	

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
16235	Product Change Notice	Copper Wire Conversion for Microcontroller and Microprocessor Devices	20 May 2014	29 Jul 2014
15684	Product Change Notice	POLYIMIDE REMOVAL FOR CHD 0.25SGF PRODUCTS	09 Jul 2013	11 Dec 2013
15040	Product Change Notice	POLYIMIDE ELIMINATION FOR 0.25UM S08/HC08 TSMC3 SOURCED PRODUCTS	28 Mar 2012	24 Aug 2012
14967	Product Change Notice	DATASHEET CHANGE FOR MC9S08SH8/MC9S08SQ4/MC9S08SQ4F	02 Jan 2012	01 Apr 2012
14333	Product Change Notice	9S08SH8/SQ4/SQ4F FAB AND ASSEMBLY EXPANSION	29 Sep 2010	28 Dec 2010
13791	Product Bulletin	9S08SH8/RS908LA8/HC908JL16/S908SF4/S908QE8 Final test site transfer from FSL-TJN-FM to KES-CHINA	18 Aug 2009	24 Aug 2009

Operating Characteristics

Parameter	Value
ADC (bit)	10
ADC (ch)	12
Additional Features	Internal Clock Generator Internal Voltage Regulator Low Voltage Detect
Bus Frequency (Max) (MHz)	20
Core: Type	S08
GPIOs	17
I2C	1
Internal Flash (KB)	8
Internal RAM (KB)	0.512
Operating Frequency (Max) (MHz)	40
Operating Temperature (Min-Max) (°C)	-40 to 85
Sample Exception Availability	N
Serial Interface - Number of Serial Interfaces	1 1 1
Serial Interface - Serial Interface Type	I2C SCI SPI
SPI	1
Supply Voltage (Min-Max) (V)	2.7 to 5.5
Timer Features	Input Capture Output Compare PWM
Timers - Number of Timers	1 2
Timers - Timer Channels	1 2
Timers - Timer Size (bit)	8 16

[Reliability Data Lookup](#)