MC33FS8410G3ES (Active)

Safety power management IC, QFN56

📄 Data Sheet
🔵 Product Summary
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Package

⊘ HVQFN56

plastic thermal enhanced very thin quad flat package; no leads; step-cut wettable flank, 56 terminals; 0.5 mm pitch, 8 mm x 8 mm x 0.85 mm body

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Buy Options | Operating Characteristics | Environmental Information | Quality Information | Shipping Information | Product Change Notification

Buy Options

MC33FS8410G3ES
935377647557
ACTIVE

1K @ US

Distributors

TRAY-Tray, Bakeable, Multiple in Drypack
Min. Package Quantity: 260

▼ Available Distributors: MC33FS8410G3ES

Shipping Location [ALL ▼]

Distributor Name	Region	Inventory	Inventory Date	
Avnet	AMERICAS	0	2020-04-05	Order
Avnet	EMEA	0	2020-04-05	Order
Digikey	GLOBAL	0	2020-04-05	Order
Mouser	GLOBAL	0	2020-04-05	Order

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MC33FS8410G3ESR2
935377647528
ACTIVE

1K @ US

Distributors

REEL-Reel 13" Q2/T3 in Drypack
Min. Package Quantity: 4000

▼ Available Distributors: MC33FS8410G3ESR2

Shipping Location [ALL ▼]

Distributor Name	Region	Inventory	Inventory Date	
Avnet	AMERICAS	0	2020-04-05	Order
Digikey	GLOBAL	0	2020-04-05	Order
Mouser	GLOBAL	0	2020-04-05	Order

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Operating Characteristics

Parameter	Value
AEC-Q100 Temperature Range	grade 1
Product Application Description	Radar with NXP S32R274 MCU,Radar with NXP S32R274 MCU
ASIL Certification	up to ASIL-B
Ambient Operating Temperature (Min to Max) (°C)	-40 to 125
Device Function	SMPS,linear regulators,safety power supply
Diagnostics	I2C,SPI
Num. of Linear/LDO Regulators	2,output 1.1V to 5V

Parameter	Value
Protection	current limit,overtemperature,overvoltage,undervoltage
Output Current (A)	15
Sample Exception Availability	Y
Supply voltage [min] (V)	-0.3
Supply voltage [max] (V)	60
Additional Features - Security	1x Fail-safe output,2 additional UV/OV Monitoring inputs,2 additional UV/OV inputs,Vcore UV/OV monitorings,Vcore and Vddio UV/OV monitorings,Vddio UV/OV monitorings,simple Watchdog
Additional Features - Analog	Analog MUX,Diagnostics Reporting,External SMPS,Temp,VDDIO,Vboost,Vbos Vsup,Vbuckx,Vldos,Vpre,Vwakex and internal supplies,Wake up capabilities

Environmental Information

Material Declaration	PbFree	EU RoHS	Halogen Free	RHF Indicator	REACH SVHC	Weight (mg)
MC33FS8410G3ES(935377647557)	Yes	Yes	Yes	D	REACH SVHC	191.4
MC33FS8410G3ESR2(935377647528)	Yes	Yes	Yes	D	REACH SVHC	191.4

Quality Information

Material Declaration	Safe Assure Functional Safety	Moisture Sensitivity Level (MSL)	Peak Package Body Temperature (PPT) (C°)	Maximum Time at Peak Temperatures (s)
		Lead Free Soldering	Lead Free Soldering	Lead Free Soldering
MC33FS8410G3ES (935377647557)	ISO 26262	3	260	40
MC33FS8410G3ESR2 (935377647528)	ISO 26262	3	260	40

Shipping Information

Part Number	Harmonized Tariff (US) Disclaimer	Export Control Classification Number (US)
MC33FS8410G3ES (935377647557)	854239	EAR99
MC33FS8410G3ESR2 (935377647528)	854239	EAR99

Product Change Notification

Part Number / 12NC	Issue Date	Effective Date	PCN	Title
MC33FS8410G3ES (935377647557)	2020-02-05	2020-02-06	201912015I	FS8400/FS8500 VR5500 FS5502 Power Management IC Data Sheet Updates
MC33FS8410G3ESR2 (935377647528)				

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