MC33FS8530A0ES (Active)

Safety power management IC, QFN56

Data Sheet | Product Summary | Software & Tools

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

Buy Options

MC33FS8530A0ES
935358751557
ACTIVE

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

1K @ US

Sample Buy Direct
Availability Availability
Distributors

Available Distributors: MC33FS8530A0ES

MC33FS8530A0ESR2
935358751528
ACTIVE

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

1K @ US

Distributors

Available Distributors: MC33FS8530A0ESR2

Operating Characteristics

Parameter	Value
AEC-Q100 Temperature Range	grade 1
Product Application Description	FS85 superset covering FS85 family of devices,FS85 superset covering FS85 family of devices
ASIL Certification	up to ASIL-D
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,4 additional UV/OV Monitoring inputs,4 additional UV/OV inputs,Vcore UV/OV monitorings,Vcore and Vddio UV/OV monitorings,Vddio UV/OV monitorings,challenger 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	2nd Level Interconnect	REACH SVHC	Weight (mg)
MC33FS8530A0ES (935358751557)	Yes	Yes Certificate Of Analysis (CoA)	Yes	D	e3	REACH SVHC	191.229
MC33FS8530A0ESR2 (935358751528)	Yes	Yes Certificate Of Analysis (CoA)	Yes	D	e3	REACH SVHC	191.229

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 Soldering	Lead Free Soldering	Lead Soldering	Lead Free Soldering
MC33FS8530A0ES (935358751557)	ISO 26262	3	260	260	40	40
MC33FS8530A0ESR2 (935358751528)	ISO 26262	3	-	260	-	40

Shipping Information

Part Number	Harmonized Tariff (US) Disclaimer
MC33FS8530A0ES (935358751557)	854239
MC33FS8530A0ESR2 (935358751528)	854239

Product Change Notification

Part Number / 12NC	Issue Date	Effective Date	PCN	Title
MC33FS8530A0ES (935358751557)	2020-02-05	2020-02-06	201912015I	FS8400/FS8500 VR5500 FS5502 Power Management IC Data Sheet Updates
MC33FS8530A0ESR2 (935358751528)				
MC33FS8530A0ES (935358751557)	2017-12-20	2018-01-03	201710023I	New PQ Label Input for Non-MPQ Shipments
MC33FS8530A0ESR2 (935358751528)				

©2006-2020 NXP Semiconductors. All rights reserved.

Downloaded from Arrow.com.