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MC33FS6600M2ES(Active)

Safety power management IC, QFN56

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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



- Buy Options
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- Shipping Information

Buy Options

MC33FS6600M2ES
935390116557
Active
TRAY-Tray, Bakeable, Multiple in Drypack

Min. Package Quantity: 260

1K @ US
▾

Available Distributors: MC33FS6600M2ES

MC33FS6600M2ESR2
935390116528
Active
REEL-Reel 13" Q2/T3 in Drypack

Min. Package Quantity: 4000

1K @ US
▾

Available Distributors: MC33FS6600M2ESR2

Operating Characteristics

Parameter	Value
Supply voltage [min] (V)	2.7
Supply voltage [max] (V)	60
Supply Voltage [Typ] (V)	12
Output Current (A)	15
Number of Buck Regulators	4
Number of LDO	2
Regulators-Buck Switching	1 HV buck output 3.3V,1 LV buck output 1.8V,2 LV buck output 0.825V
	1 LV boost output 5.74V

Parameter	Value
Switching Frequency Vpre (kHz)	440
Switching Frequency LV Buck (MHz)	2
Number of Boost Regulators	1
Number of Channels	6
IQ (μA)	10
CAN PHY	0

Parameter	Value
LIN PHY	0
Ambient Operating Temperature (Min to Max) (°C)	125 to -40
Safety level	up to ASIL-C,up to ASIL-D
MCU Supported	S32R,S32V,TC2xxx,TC3xxx
Device Function	SMPS,linear regulators,safety power supply
Interface and Input Control	I2C / I2C,SPI / SPI
Additional Features - Analog	AMUX,Frequency Tuning,Sync
Additional Features - Security	1x Fail-safe output,4 additional UV/OV inputs,Vcore UV/OV monitorings,Vddio UV/OV monitorings,challenger Watchdog
Junction Temperature (Min to Max) (°C)	150 to -40
Development Tools	KITFS85AEEVM,KITFS85FRDMEVM,KITFS85SKTEVM
Protection	current limit,overtemperature,overvoltage,undervoltage
Supply Voltage [Min to Max] (V)	60.0 to 2.7
Sample Exception Availability	Y

Environmental Information

Material Declaration	PbFree	EU RoHS	Halogen Free	RHF Indicator	REACH SVHC	Weight (mg)
MC33FS6600M2ES(935390116557)	Yes	Yes	Yes	D	REACH SVHC	191.4
MC33FS6600M2ESR2(935390116528)	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
MC33FS6600M2ES (935390116557)	ISO 26262	3	260	40
MC33FS6600M2ESR2 (935390116528)	ISO 26262	3	260	40

Shipping Information

Part Number	Harmonized Tariff (US) Disclaimer	Export Control Classification Number (US)
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MC33FS6600M2ES (935390116557)	854239	EAR99
MC33FS6600M2ESR2 (935390116528)	854239	EAR99

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