

MC17XSG500EK :Part Detail

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General Information

Part Number	MC17XSG500EK
Description	High-Side Switch, 32V 12V, Penta 17mOhm, SOICEP 32, Rail
Product Line	G176500B
PTI	AAAD
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	AUTO; >=10 YEARS APPLICATION LIFE

Package Information

Package Type and Termination Count	SOIC-EP 32
Package Description and Mechanical Drawing	ESOIC 32 7.5*11*2.3 P.65
Device Weight(g)	0.48280
Package Length (nominal)(mm)	7.500
Package Width (nominal)(mm)	11.000
Package Thickness (nominal)(mm)	2.300
Tape & Reel	No

Environmental and Compliance Information

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	260

(PPT)(°C)	
Maximum Time at Peak Temperature (s)	40
Number of Reflow Cycles	3
REACH SVHC	NXP REACH Statement
UL94 (plastics flammability test)	V1;Burning stops within 30 seconds on a vertical specimen;drips allowed as long as they are not inflamed

Manufacturing Information

Micron Size(μm)	.45
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Ordering Information

Minimum Package Quantity (MPQ)	42
MPQ Container	RAIL
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	1680
POQ Container	BOX
Export Control Classification Number (US)	EAR99
Harmonized Tariff (	
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US Currency)	1000 @ US each

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 Sample

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Operating Characteristics

Additional Features-Analog	Diagnostics Reporting Fail Safe Input Output Current Monitor PWM Capable
Ambient Operating Temperature (Min-Max) (°C)	-40 to 125
Device Function	High Side Switch
Interface and Input Control	Parallel SPI
Load Supply Voltage (Max) (V)	32
Load Supply Voltage (Min) (V)	6

Protection	Overtemperature Short Circuit Undervoltage
Sample Exception Availability	Y
Supply Voltage (Min-Max) (V)	4.5 to 5.5

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News 19 Apr 2017



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