

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- For Surface Mount Applications
- Low Thermal Resistance
- · High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

3 Amp Silicon Rectifier 50 to 1000 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 47°C/W Junction to Ambient
- Maximum Thermal Resistance: 13°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S3A	S3A	50V	35V	50V
S3B	S3B	100V	70V	100V
S3D	S3D	200V	140V	200V
S3G	S3G	400V	280V	400V
S3J	S3J	600V	420V	600V
S3K	S3K	800V	560V	800V
S3M	S3M	1000V	700V	1000V

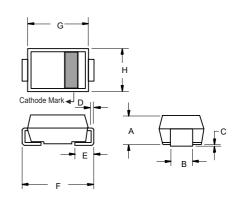
Electrical Characteristics @ 25°C Unless Otherwise Specified

Power Dissipation	P _D	2.6W	
Average Forward Current	I _{F(AV)}	3.0A	T _L =105°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.2V	I _{FM} =3.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 250μΑ	T _J =25°C; T _J =125°C
Typical Junction Capacitance	CJ	60pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse Test: Pulse Width 200 µsec, Duty Cycle 2%

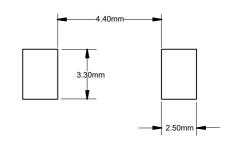
Note: 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

SMC (DO-214AB)



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.103	2.00	2.62		
В	0.108	0.128	2.75	3.25		
С	0.002	0.008	0.051	0.203		
D	0.006	0.012	0.152	0.305		
Е	0.030	0.060	0.76	1.52		
F	0.305	0.320	7.75	8.13		
G	0.260	0.280	6.60	7.11		
Н	0.220	0.245	5.59	6.22		

Suggested Solder Pad Layout





Curve Characteristics

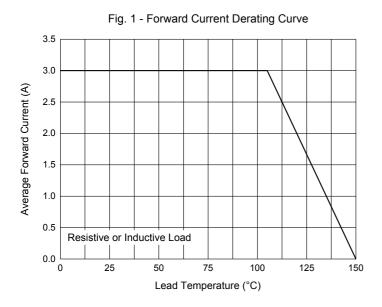
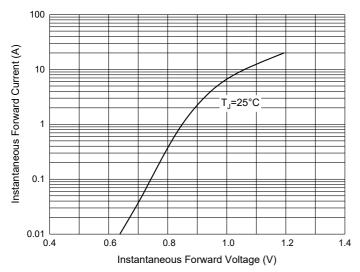


Fig. 3 - Typical Instantaneous Forward Characteristics



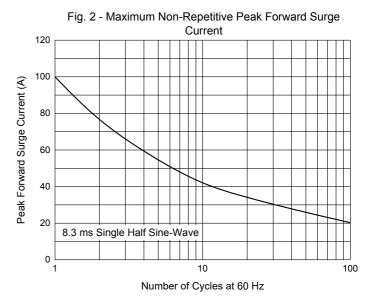
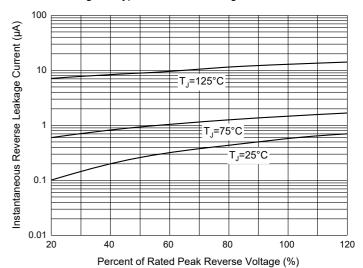


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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