

Features

- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Glass Passivated Chip Junction
- Low Profile Package
- For Surface Mount Applications
- High Forward Surge Capability
- Lead Free Finish/RoHS Compliant (Note 2) ("P"Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3): 15°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 60°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S3JBFL	S3JB	600V	420V	600V
S3MBFL	S3MB	1000V	700V	1000V

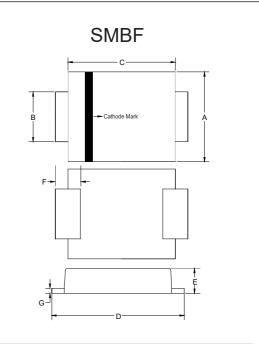
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	Ι _Ο	3.0A	T _L =85°C	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	100A 200A	8.3ms,Half-Sine Wave 1ms,Square Wave	
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _F =3.0A; T _J =25°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J =25⁰C; T _J =125⁰C	
Typical Junction Capacitance	CJ	25pF	Measured at 1.0MHz V _R =4.0V	

Note:

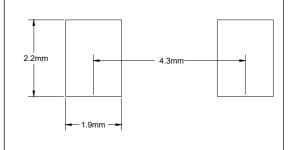
- 1. Halogen free "Green" products are defined as those which contain <900 ppm bromine,
- <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
- 3. Mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.

3 Amp Glass Passivated Rectifier 600 to 1000 Volts



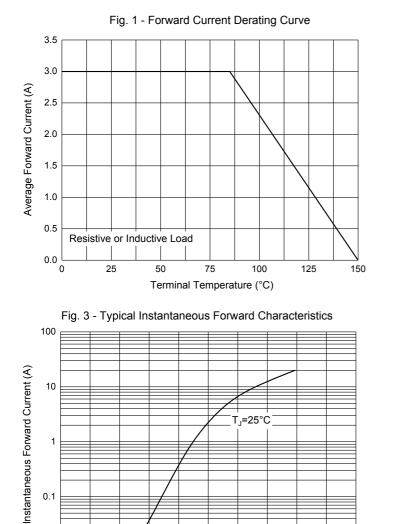
	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
A	0.134	0.150	3.40	3.80			
В	0.075	0.083	1.90	2.10			
С	0.163	0.175	4.15	4.45			
D	0.201	0.220	5.10	5.60			
E	0.041	0.061	1.05	1.55			
F	0.028	0.053	0.70	1.35			
G	0.006	0.010	0.15	0.25			

Suggested Solder Pad Layout





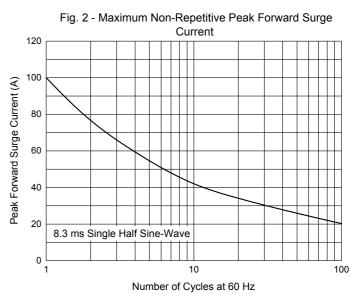
Curve Characteristics

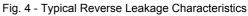


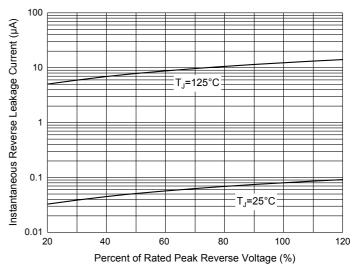
1.0

1.2

1.4







1

0.1

0.01 – 0.4

0.6

0.8

Instantaneous Forward Voltage (V)



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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