

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Forward Voltage Drop and High Current Capability
- Lead Free Finish/RoHS Compliant (Note2) ("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: 10°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S3ABHE3	S3AB	50V	35V	50V
S3BBHE3	S3BB	100V	70V	100V
S3DBHE3	S3DB	200V	140V	200V
S3GBHE3	S3GB	400V	280V	400V
S3JBHE3	S3JB	600V	420V	600V
S3KBHE3	S3KB	800V	560V	800V
S3MBHE3	S3MB	1000V	700V	1000V

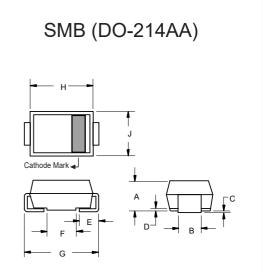
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	Ι _Ο	3.0A	T _T =75⁰C
Non-Repetitive Peak Forward Surge Current	I _{FSM}	100A 200A	8.3ms,Half Sine Wave 1ms,Square Wave
Repetitive Peak Forward Surge Current	I _{FRM}	150A	300us Surge Duration 900 ms Between Surges
Maximum Instantaneous Forward Voltage	V _F	1.15V	I _{FM} =3.0A; T _J =25⁰C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 250μΑ	T _J =25⁰C; T _J =125⁰C
Typical Junction Capacitance	CJ	40pF	Measured at 1.0MHz V _R =4.0V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

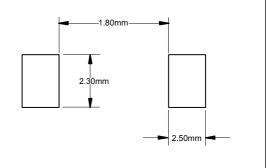
2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

3 Amp Glass Passivated Rectifier 50 to 1000 Volts



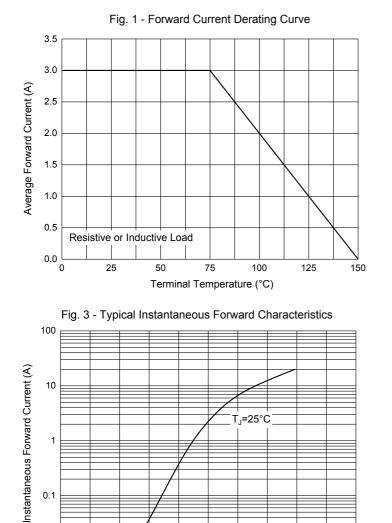
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.079	0.103	2.00	2.62	
В	0.075	0.087	1.91	2.21	
С	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
Н	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

Suggested Solder Pad Layout





Curve Characteristics

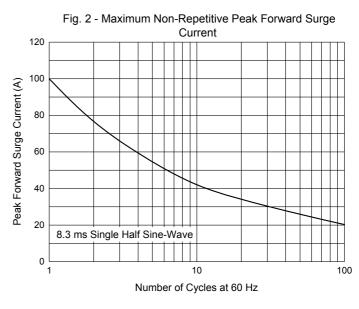


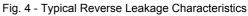
,=25°C

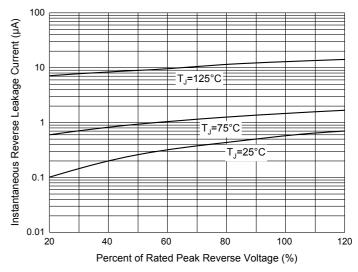
1.0

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: 3Kpcs/Reel	

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