

3.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 100A Peak
- Ideally Suited for Automatic Assembly
- Plastic Material UL Flammability Classification 94V-0

Mechanical Data

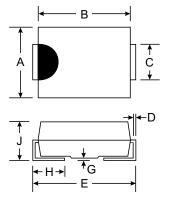
Case: Molded Plastic

• Terminals: Solder Plated Terminal - Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band or Cathode Notch

Weight: SMB 0.093 grams (approx)
 SMC 0.21 grams (approx)

Marking: Type Number



	SI	ИB	SMC					
Dim	Min	Max	Min	Max				
Α	3.30	3.94	5.59	6.22				
В	4.06	4.57	6.60	7.11				
С	1.96	2.21	2.75	3.18				
D	0.15	0.31	0.15	0.31				
Е	5.00	5.59	7.75	8.13				
G	0.10	0.20	0.10	0.20				
Н	0.76	1.52	0.76	1.52				
J	2.00	2.62	2.00	2.62				
All Dimensions in mm								

AB, BB, DB, GB, JB, KB, MB Suffix Designates SMB Package A, B, D, G, J, K, M Designates SMC Package

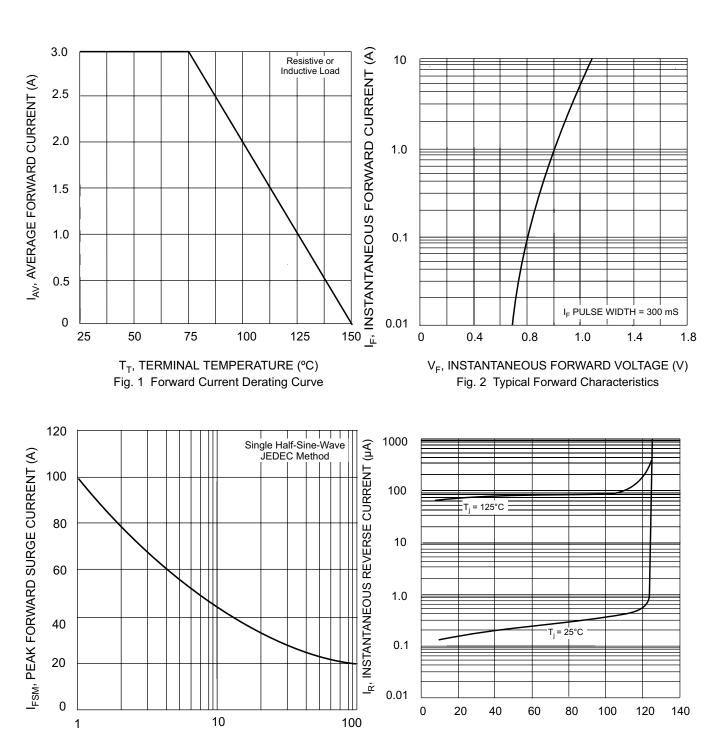
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		S3 A/AB	S3 B/BB	S3 D/DB	S3 G/GB	S3 J/JB	S3 K/KB	S3 M/MB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V _{R(RMS)}	30	70	140	280	420	560	700	٧
Average Rectified Output Current @T _T = 75°C	I _O	3.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100						Α	
Forward Voltage @ I _F = 3.0A	V _{FM}	1.15						٧	
Peak Reverse Current @T _A = 25°C at Rated DC Blocking Voltage @ TA = 125 °C		10 250						μΑ	
Typical Junction Capacitance (Note 2)	Cj	40						pF	
Typical Thermal Resistance Junction to Terminal (Note 1)		10						°C/W	
Operating and Storage Temperature Range		-65 to +150						°C	

otes: 1. Thermal resistance: junction to terminal, unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pad as heat sink.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Forward Surge Current Derating Curve

PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 4 Typical Reverse Characteristics