

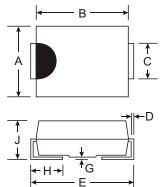
3.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 100A Peak
- Ideally Suited for Automatic Assembly
- Available in Lead Free Finish/RoHS Compliant Version (Note 3)

Mechanical Data

- Case: SMB/SMC
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Terminals: Solder Plated Terminal Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish).
 Please see Ordering Information, Note 5, on Page 2
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number & Date Code, See Page 2
- Ordering Information: See Page 2
- Weight: SMB 0.093 grams (approximate)
 SMC 0.21 grams (approximate)



Dim	SI	/IB	SMC			
	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		
E	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		Symbol	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		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		V _{R(RMS)}	30	70	140	280	420	560	700	V
Average Rectified Output Current	@ T _T = 75°C	Io		•	•	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		1.15						V	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			10 250					μΑ		
Typical Total Capacitance (Note 1)		Ст	40					pF		
Typical Thermal Resistance Junction to Terminal (Note 2)		$R_{\theta JT}$	10					°C/W		
Operating and Storage Temperature Range		T _{j,} T _{STG}	-65 to +150					°C		

Notes:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance: Junction to Terminal, unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pad as heat sink.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



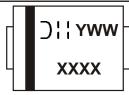
Ordering Information (Note 4)

Device*	Packaging	Shipping
S3xB-13 S3x-13	SMB SMC	3000/Tape & Reel

^{*}x = Device type, e.g. S3AB-13 (SMB package); S3A-13 (SMC Package).

- 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.
- 5. For Lead Free Finish; RoHS Compliant version part numbers, please add "-F" suffix to the part numbers above. Example: S3AB-13-F.

Marking Information

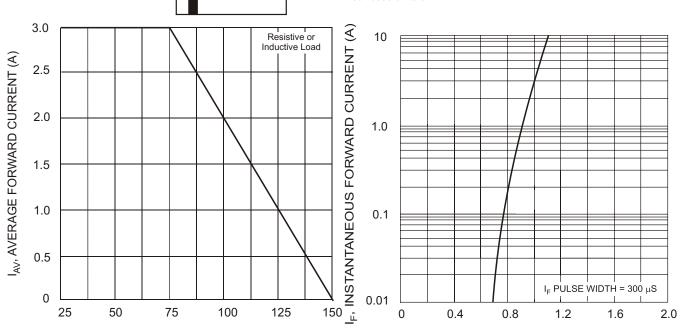


XXXX = Product type marking code, ex. S5KC

III = Manufacturers' code marking

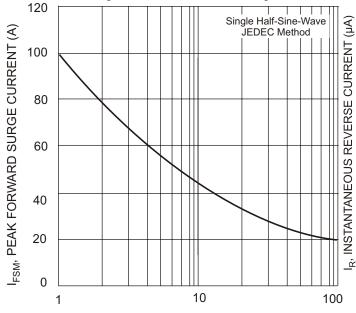
YWW = Date code marking Y = Last digit of year ex: 2 for 2002

WW = Week code 01 to 52



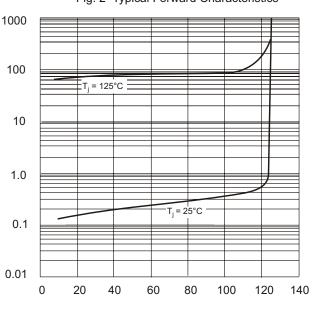
T_T, TERMINAL TEMPERATURE (°C)

Fig. 1 Forward Current Derating Curve



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

V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



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

单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))