

SURFACE MOUNT RECTIFIER DIODES

VOLTAGE RANGE: 50-1000V CURRENT: 3.0 A

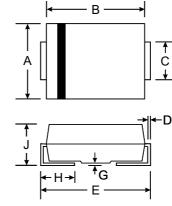
Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)





SMB(DO-214AA)							
Dim	Min	Max					
Α	3.30	3.94					
В	4.06	4.70					
с	1.91	2.21					
D	0.15	0.31					
E	5.00	5.59					
G	0.10	0.20					
н	0.76	1.52					
J	2.00	2.62					
All Dimensions in mm							

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

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

Characteristic		Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current	@T _L = 75°C	lo	3.0						А	
Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave super rated load (JEDEC Method)		IFSM	100					А		
Forward Voltage	@I _F = 3.0A	Vfm	1.20						V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	I RM	5.0 250						μA	
Reverse Recovery Time (Note 1)		trr				2.5				μS
Typical Junction Capacitance (Not	e 2)	Cj				60				pF
Typical Thermal Resistance (Note	3)	R∉JL				13				°C/W
Operating and Storage Temperatu	re Range	Tj, TSTG	-65 to +150					°C		

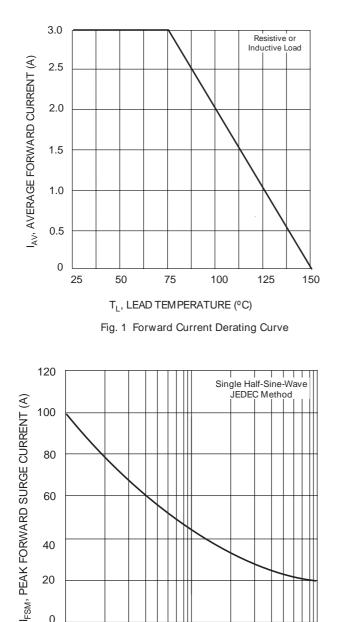
Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

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

3. Mounted on P.C. Board with 8.0mm² land area.







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NUMBER OF CYCLES AT 60 Hz

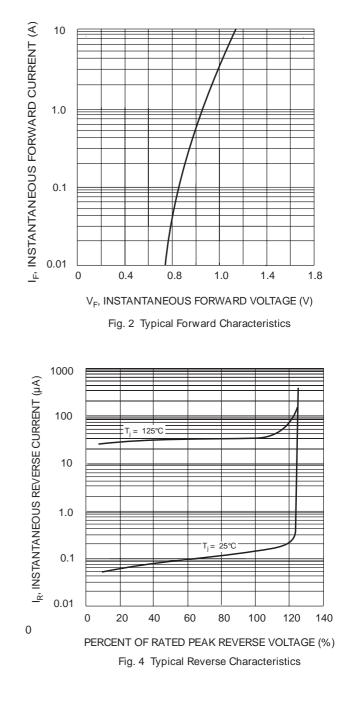
Fig. 3 Forward Surge Current Derating Curve

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0

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