

S5AB - S5MB

SURFACE MOUNT RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 5.0 A

Features

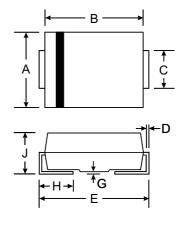
- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



- 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				
Е	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 TA = 25°C unless otherwise specified

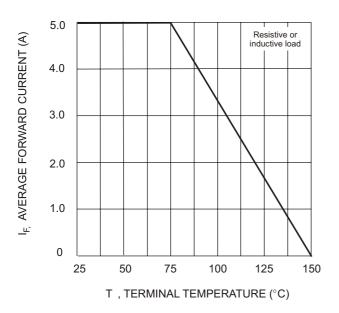
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

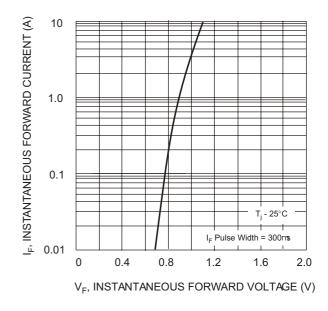
Characteristic		Symbol	S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current	lo	5.0							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100							А
Forward Voltage	@I _F = 5.0A	VFM	1.15							V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	İRM	10 250							μΑ
Typical Junction Capacitance (No	te 1)	Cj				40				pF
Typical Thermal Resistance (Note 2)		R_{θ} JL	10							°C/W
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150							°C

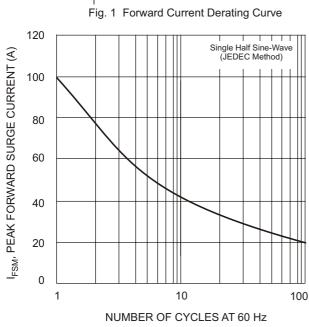
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

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









I_R, INSTANTANEOUS REVERSE CURRENT (mA) 1000 T_i = 125°C 100 10 1.0 T_i = 25°C 0.1 0.01 0 20 40

Fig. 3 Forward Surge Current Derating Curve

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

80

100

120

140

60

Fig. 2 Typical Forward Characteristics