

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

Mechanical Data

 Case: SMB/DO-214AA, Molded Plastic
Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026

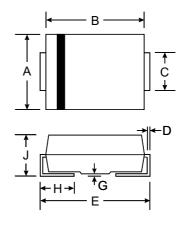
Polarity: Cathode Band or Cathode Notch

Marking: Type Number

Weight: 0.093 grams (approx.)







CMD/DO 244AA)								
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

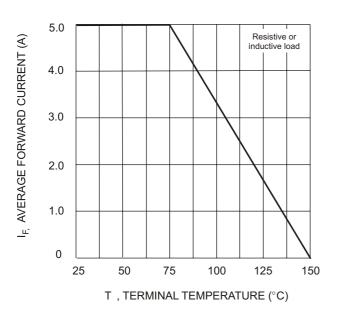
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

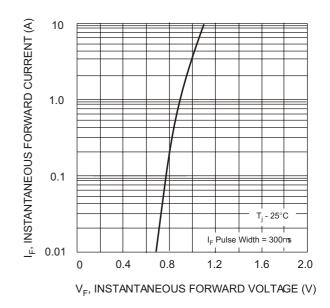
Characteristic		Symbol	S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current	@T _L = 75°C	lo				5.0				Α
Non-Repetitive Peak Forward Surge 8.3ms Single half sine-wave superir rated load (JEDEC Method)		İFSM				100				А
Forward Voltage	@I _F = 5.0A	VFM	1.15						V	
	@T _A = 25°C @T _A = 125°C	lкм	10 250						μΑ	
Typical Junction Capacitance (Note	1)	Cj				40				pF
Typical Thermal Resistance (Note 2	?)	R_{θ} JL				10				°C/W
Operating and Storage Temperature	e Range	Тj, Tsтg			-(65 to +15	0			°C

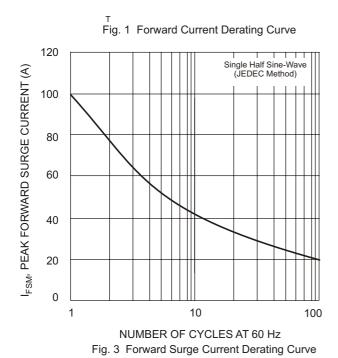
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

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









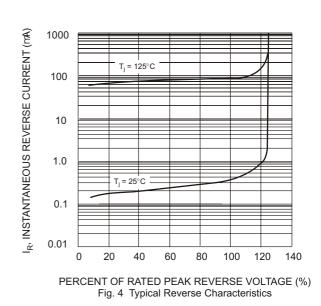


Fig. 2 Typical Forward Characteristics