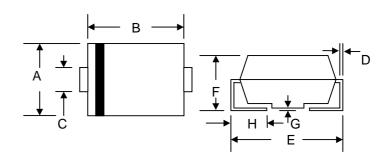
# S5A - S5M



#### 5.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

#### **Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



### **Mechanical Data**

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)
- Lead Free: For RoHS / Lead Free Version,
  Add "-LF" Suffix to Part Number, See Page 4

SMC/DO-214AB							
Dim	Min	Max					
Α	5.59	6.22					
В	6.60	7.11					
С	2.75	3.25					
D	0.152	0.305					
E	7.75	8.13					
F	2.00	2.62					
G	0.051	0.203					
Н	0.76	1.27					
All Dimensions in mm							

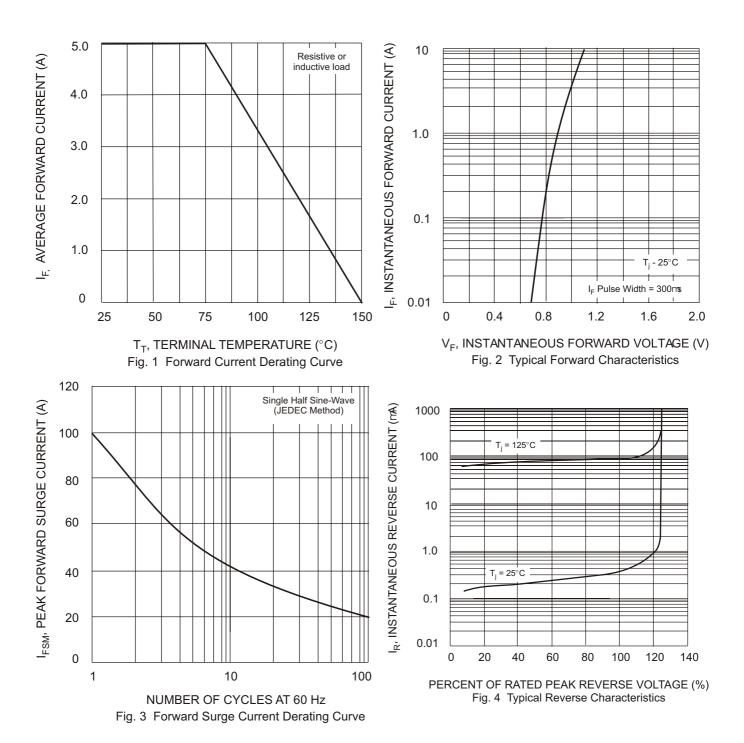
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	S5A	S5B	S5D	S5G	S5J	S5K	S5M	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 <sub>L</sub> = 75°C	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 <sub>F</sub> = 5.0A	VFM	1.15						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IDM	10 250						μΑ	
Typical Junction Capacitance (Note 1)	Cj				40				pF
Typical Thermal Resistance (Note 2)	RθJL				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 8.0mm<sup>2</sup> land area.

S5A – S5M



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