

S5A THRU S5M

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

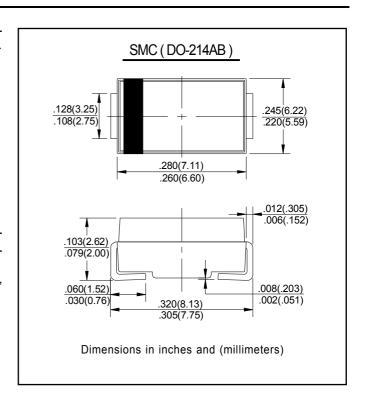
Case: JEDEC SMC/DO-214AB molded plastic body **Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.007 ounce, 0.24grams





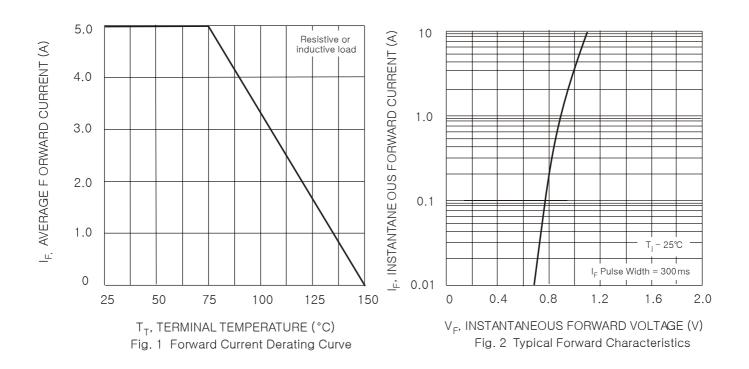
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

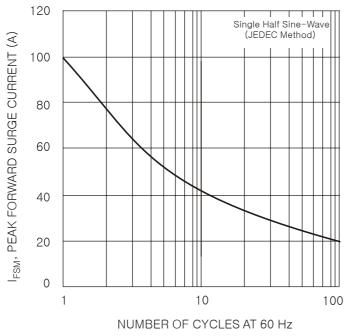
Characteristic		Symbol	S5A	S5B	S5D	S5G	S5J	S5K	S5M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L = 75°C		Io	5.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	100							А
Forward Voltage	@I _F = 5.0A	VFM	1.10						V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	IRM	10.0 250						μΑ	
Typical Junction Capacitance (Note 2)		Cj	40							pF
Typical Thermal Resistance (Note 3)		R_{θ} JL	10							°C/W
Operating and Storage Temperature Range		Tj, TSTG	-55 to +150°C							°C

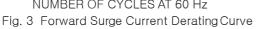
- Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_m = 0.25A$,
 - 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
 - 3. Mounted on P.C. Board with 8.0mm² land area.

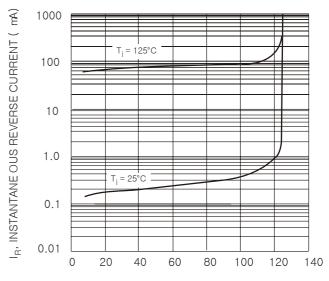


S5A THRU S5M **RATINGS AND CHARACTERISTIC CURVES**









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