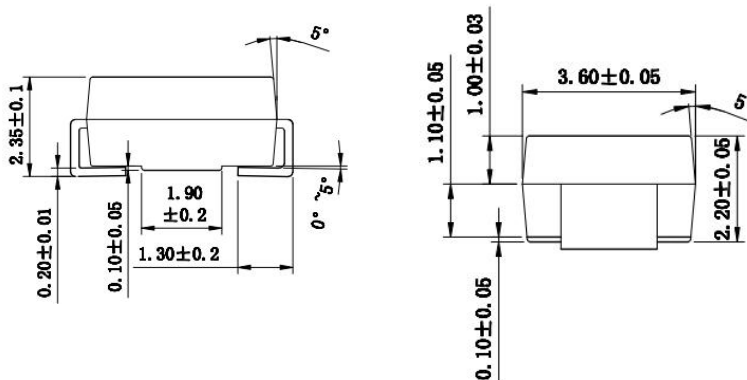




Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Open Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

DO-214AA/SMB



Mechanical Data

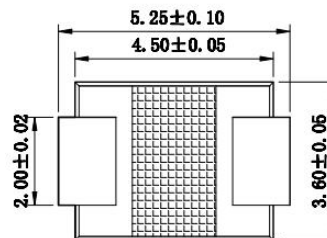
Case: JEDEC 60B molded plastic body

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body Mounting

Position: Any

Weight : 0.005ounce, 0.138grams



Maximum Ratings And Elect Characteristics

Dimensions in inches and (millimeters)

Ratings at 25 C ambient temperature unless otherwise specified.

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

Type Number	SYMBOL	S5A	S5B	S5D	S5G	S5J	S5K	S5M	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	140	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200.0							A
Maximum Forward Voltage at 1.5A DC	V_F	1.1							V
Maximum DC Reverse Current @TA =25°C At rated DC blocking voltage @TA=100°C	I_R	10.0							μA
		100							
Typical Junction Capacitance (Note1)	C_j	40							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	48							°C /W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_J	-55 to +150							°C



Fig.1 Forward Current Derating Curve

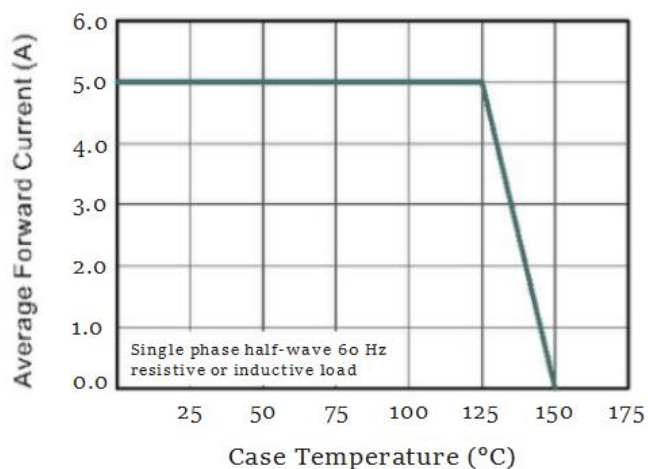


Fig.2 Typical Instantaneous Reverse Characteristics

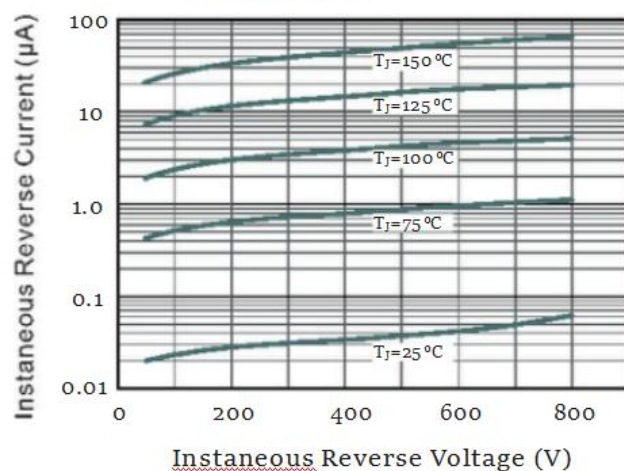


Fig.3 Typical Forward Characteristic

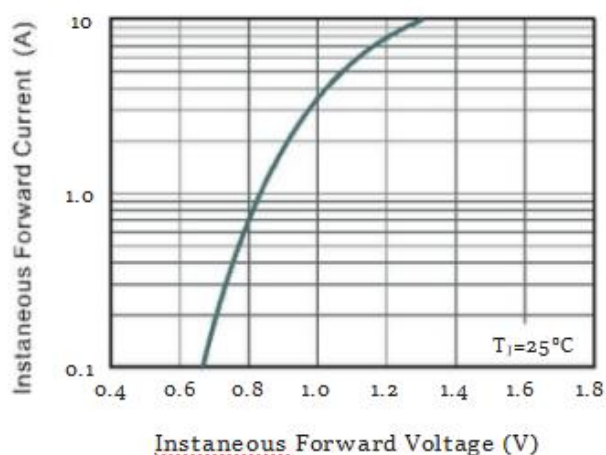


Fig.4 Typical Junction Capacitance

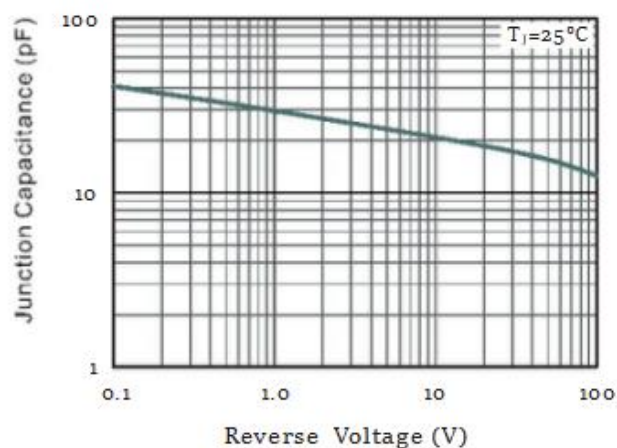


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

