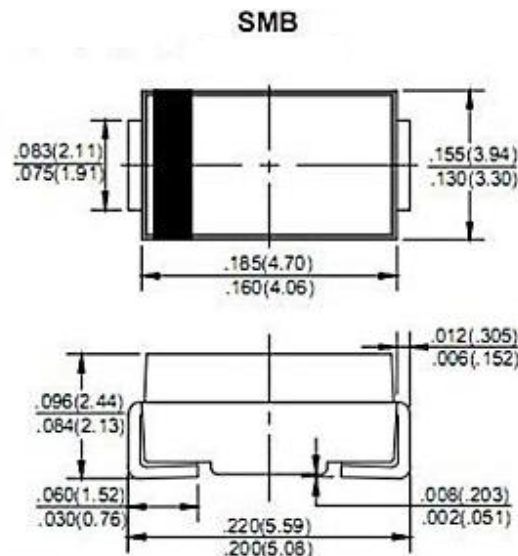




Features

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier.majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity,low VF
- For use in low voltage high frequency inverters,free wheeling and polarity protection applications.
- High temperature soldring guaranteed:260°C/10 seconds at termin



Dimensions in inches and (millimeters)

Mechanical Data

Terminal: Plated leads, solderable per MIL-

- STD-750,Method 2026
- Case: molded plastic SMB
- Polarity: Color band denotes positives end(cathode)
- Standard packaging:12mm tape(EIA-481)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	SYMBOL	SS52B	SS53B	SS54B	SS55B	SS56B	SS58B	SS510B	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking Voltage	V_{DC}	20	30	40	50	60	80	100	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}	100							A
Maximum Forward Voltage at 1.5A DC	V_F	0.60			0.70		0.85		V
Maximum DC Reverse Current @TA =25°C At rated DC blocking voltage @TA=100°C	I_R	0.5							mA
		40							
Typical Junction Capacitance (Note1)	C_j	300							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	85							°C /W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_J	-55 to +125							°C

Note: 1. Pulse Test with PW=300μsec,2% Duty Cycle.

2. Mounted on P.C.Board with 5.0mm2(.013mm thick)copper pad areas.



Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

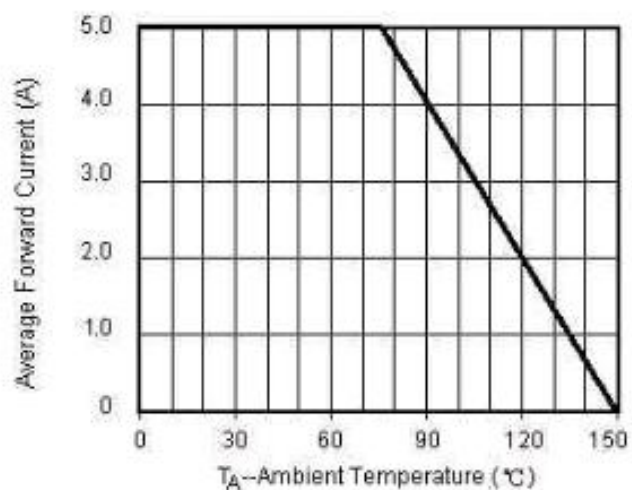


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

