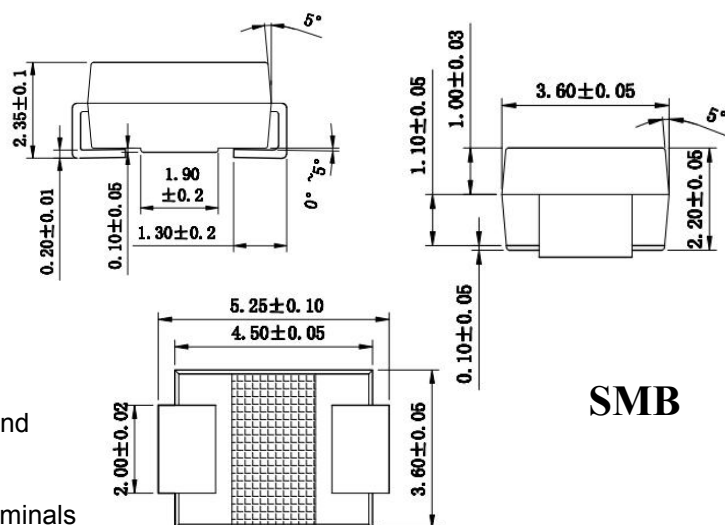




Features

- 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℃/10 seconds at terminals


SMB

Mechanical Data

Terminal: Plated leads, solderable per MIL-

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

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	SYMBOL	SS22B	SS23B	SS24B	SS25B	SS26B	SS28B	SS210B	SS215B	SS220B	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	2									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50									A
Maximum Forward Voltage at 1.5A DC	V_F	0.60			0.70		0.85		0.95		V
Maximum DC Reverse Current @TA =25°C At rated DC blocking voltage @TA=100°C	I_R	0.5							0.2		mA
		10				5		2		mA	
Typical Junction Capacitance (Note1)	C_j	220			180						pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	55									°C /W
Storage Temperature	T_{STG}	-50 to +150									°C
Operation Junction Temperature	T_J	-50 to +125							-50 to +150		°C

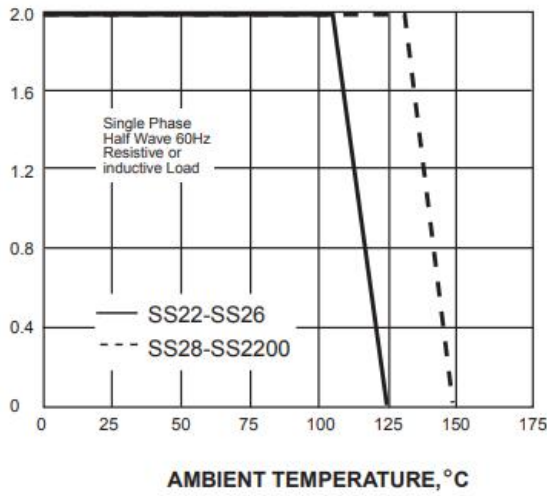
Note: 1. Pulse Test with PW=300μsec,2% Duty Cycle.

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



AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT,
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

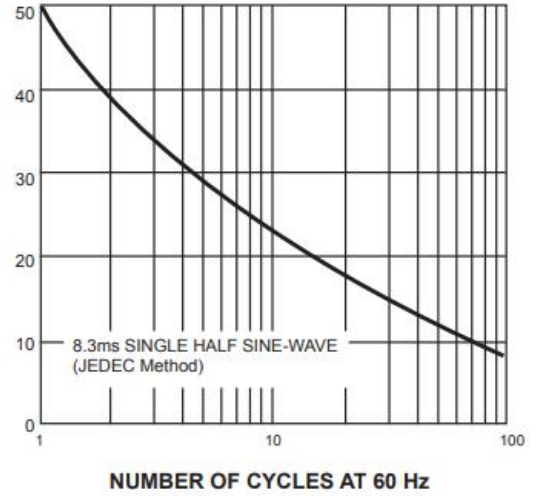
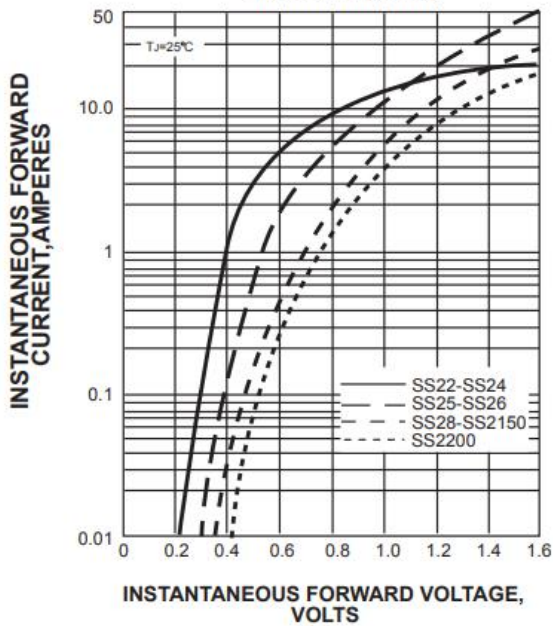


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

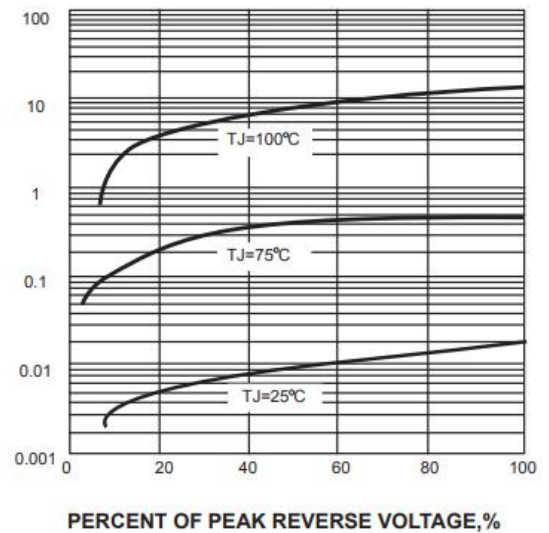
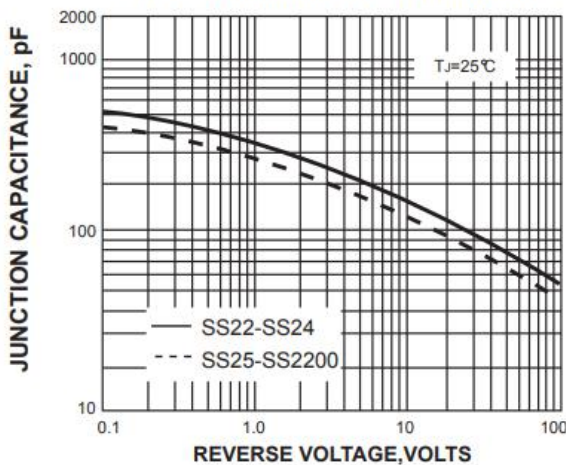


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

