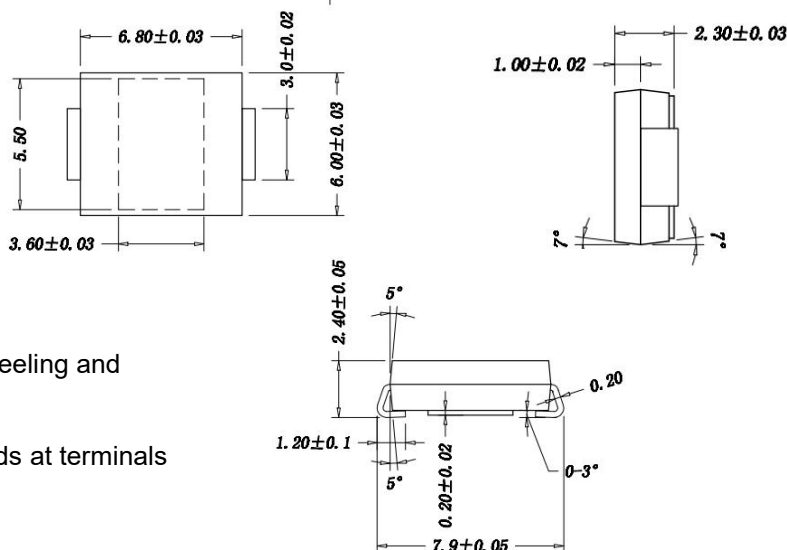




Features

- 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 terminals

SMC(DO-214AB)



Mechanical Data

Terminal: Plated leads, solderable per MIL-

- STD-750,Method 2026
- Case: molded plastic SMC
- 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°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	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	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	$I_{F(AV)}$	3									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80									A
Maximum Forward Voltage at 1.5A DC	V_F	0.55			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	
		20				10		2		mA	
Typical Junction Capacitance (Note1)	C_j	450			350						pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	50									°C /W
Storage Temperature	T_{STG}	-50 to +150									°C
Operation Junction Temperature	T_J	-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.



Schottky rectifier

Fig.1 Forward Current Derating Curve

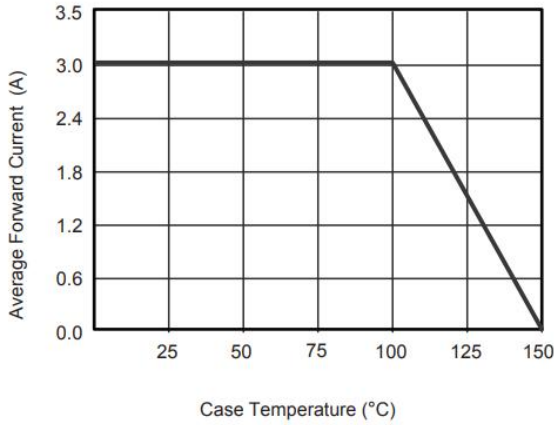


Fig.2 Typical Reverse Characteristics

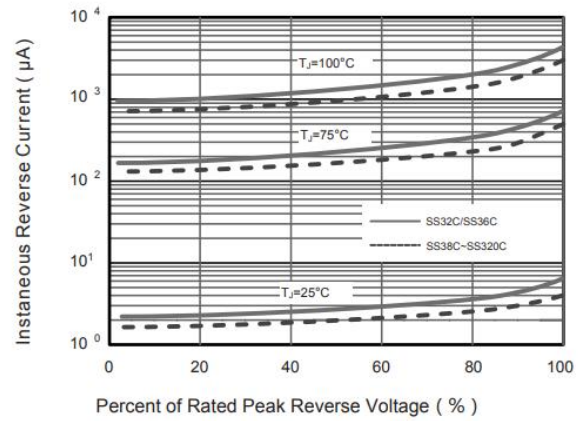


Fig.3 Typical Forward Characteristic

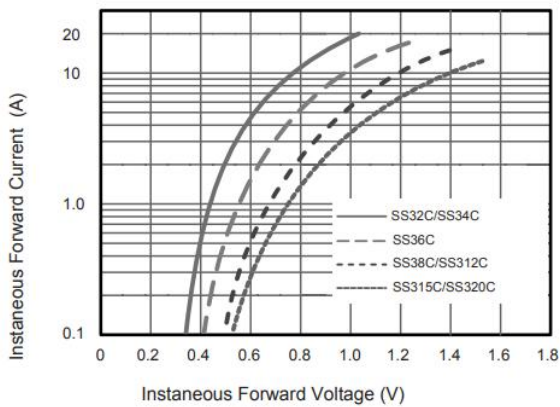


Fig.4 Typical Junction Capacitance

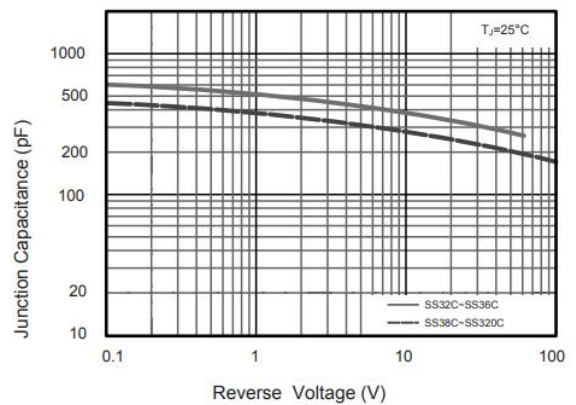


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

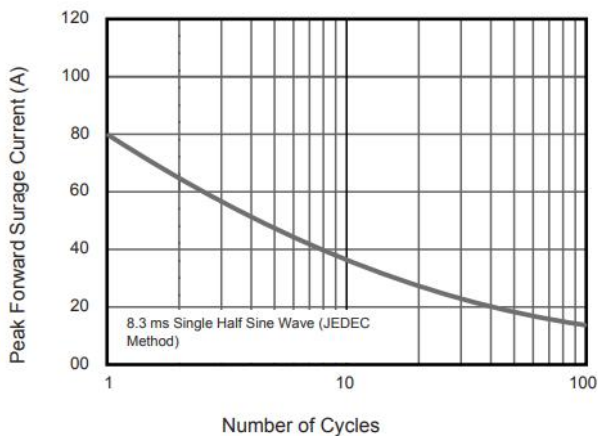


Fig.6 Typical Transient Thermal Impedance

