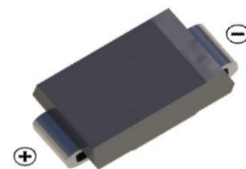


Features

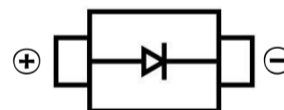
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop



SMA

Mechanical Data

- Case: SMA (DO-214AC) molded plastic body
- Terminals: leads solderable per MIL-STD-750, Method 2026
- Polarity: color band denotes cathode end



Absolute Maximum Rating & Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load.

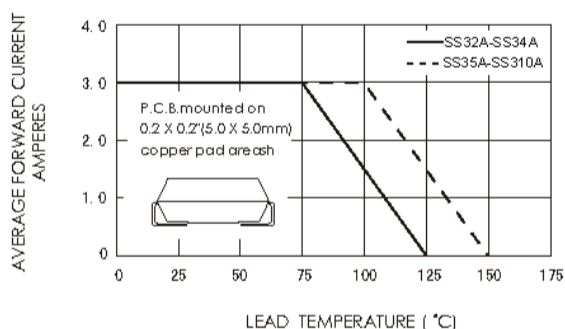
Parameters		Symbol	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage		V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	80	100	V
Average Rectified Output Current		I _{F(AV)}	3							A
Non-Repetitive Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	100							A
Maximum Instantaneous Forward Voltage at 3 A		V _F	0.55			0.70		0.85		V
Maximum DC reverse current at rated DC blocking voltage	T _J =25 °C	I _R	0.5							mA
	T _J =100 °C		20							
Typical thermal resistance (1)		R _{θJA}	55							°C/W
		R _{θJL}	17							
Operating junction temperature range		T _J	-55 TO +125							°C
Storage temperature range		T _{STG}	-55 TO +150							°C

Note:

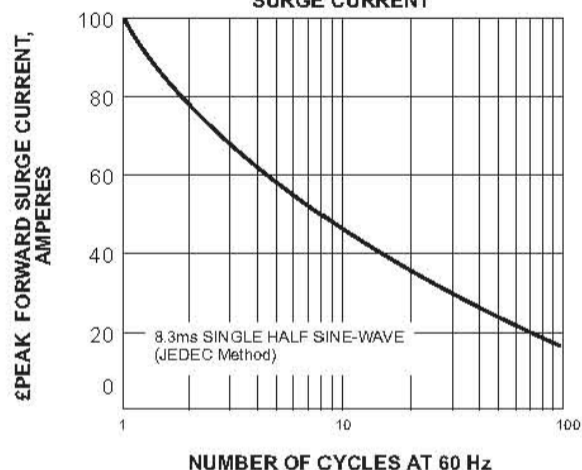
1. P.C.B. mounted with 0.55 X 0.55 " (14 X 14 mm) copper pad areas

Typical Characteristic

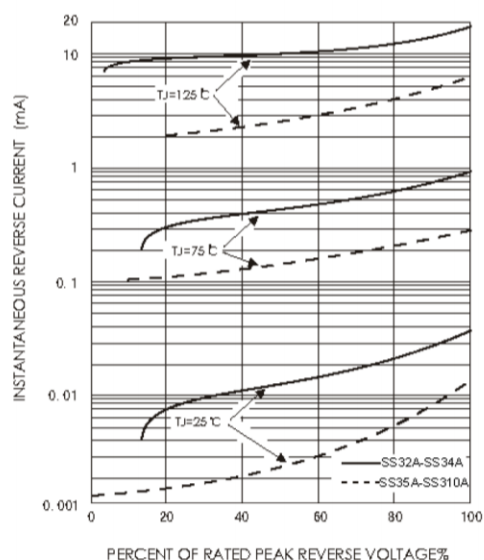
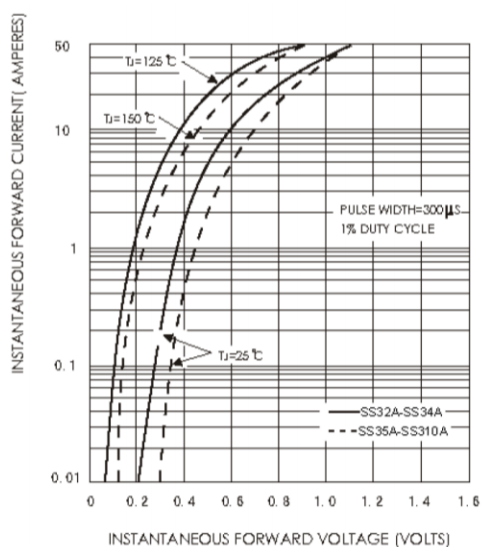
FORWARD CURRENT DERATING CURVE



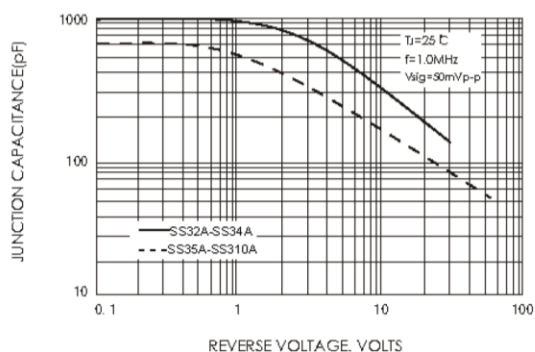
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



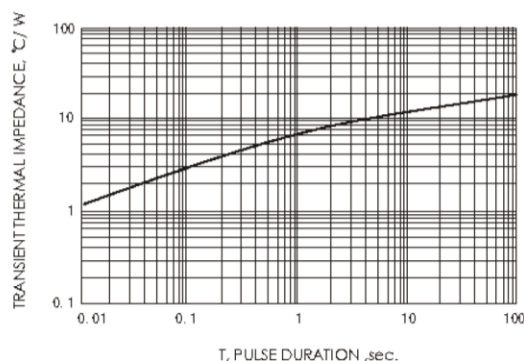
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE

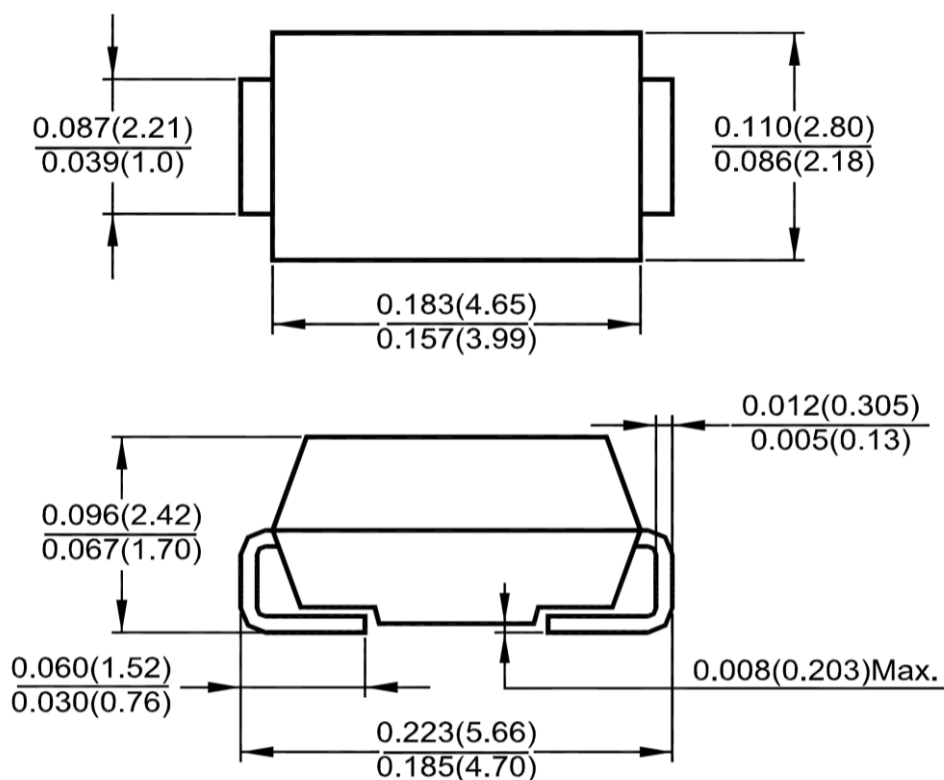


TYPICAL TRANSIENT THERMAL IMPEDANCE



Dimension

SMA (DO-214AC)



Dimensions in inches and (millimeters)