SCHOTTKY DIODES

SS32---SS310

FEATURES

Plastic package has Underwriters Laboratory

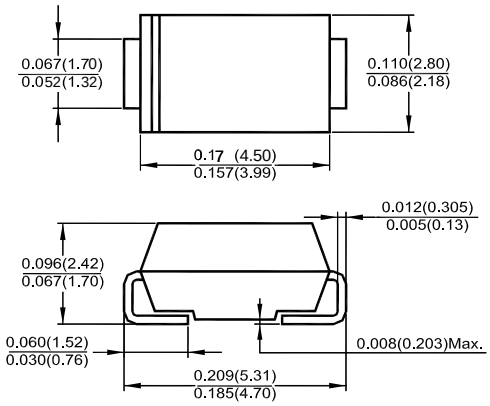
Flammability Classification 94V-0

For surface mounted applications

Metal silicon junction, majority carrier conduction

Low power loss, high efficiency.

High current capability, low forward voltage drop



Dimensions in inches and (millimeters)

DO-214AC (SMA)

MECHANICAL DATA

SMA (DO-214AC) molded plastic body

leads solderable per MIL-STD-750, Method 2026

color band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

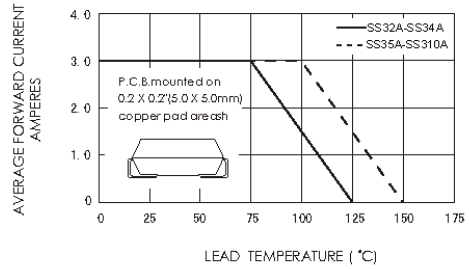
Ratings at 25 ^{o}C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Paramete	Symbols	SS32	SS33	SS34	SS35	SS36	SS38	SS310	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
Maximum Average Forward Rectified Current	$I_{(AV)}$	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	80							A
Maximum Instantaneous Forward Voltage at 3 A	V_F	0.55			0.75		0.85		V
Maximum DC Reverse Current T_A = 25 ^{o}C	I_R	0.2							mA
at Rated DC Blocking Voltage T_A = 100 ^{o}C		20			10				
Typical Thermal Resistance 1)	$R_{\theta JA}$	88							^{o}C/W
	$R_{\theta JL}$	28							
Operating Junction Temperature Range	T_j	- 65 to + 125			- 65 to + 150				^{o}C
Storage Temperature Range	T_{stg}	- 65 to + 150							^{o}C

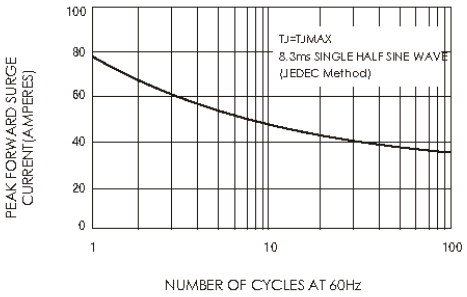
1)P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

SS32---SS310 Typical Characteristics

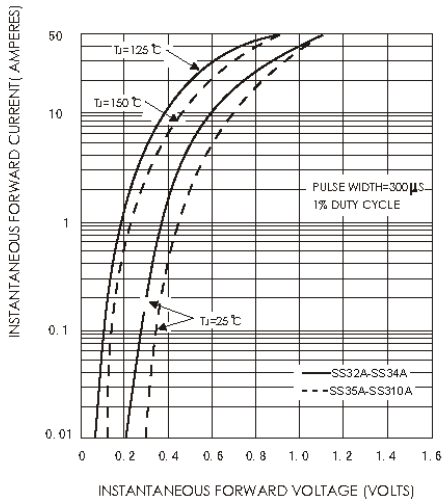
FORWARD CURRENT DERATING CURVE



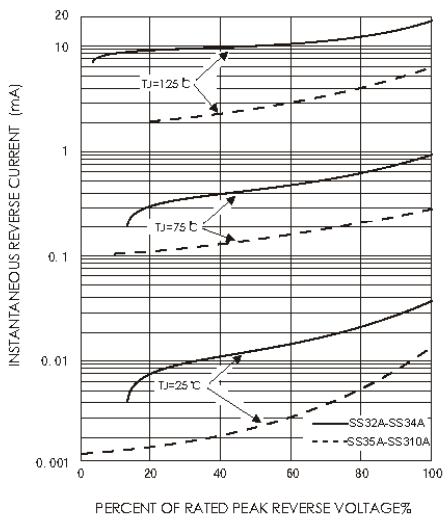
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



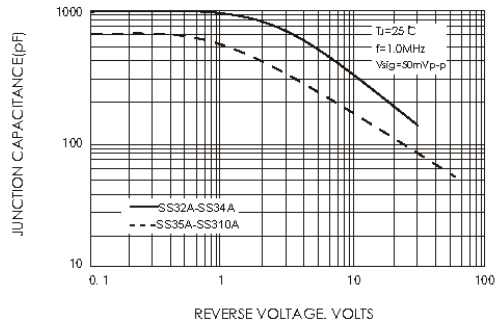
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



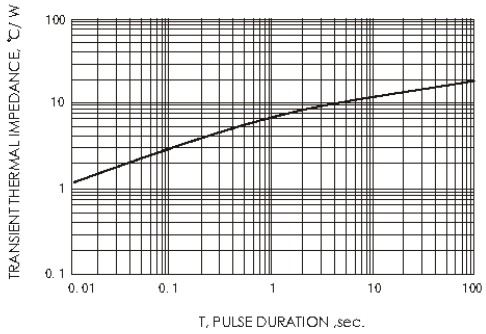
TYPICAL REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



TYPICAL TRANSIENT THERMAL IMPEDANCE



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