



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SK/SS32 THRU SK/SS310 20 to 100 V 3.0A

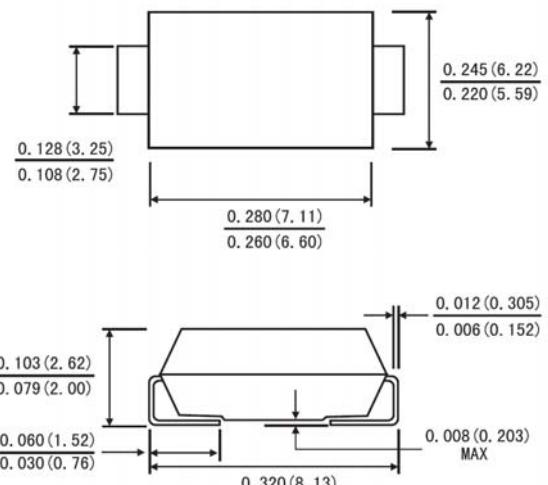
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- For surface mount applications
- Guard ring for over voltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:
250°C/10 seconds at terminals

Mechanical Data

- Case: JEDEC SMC(DO-214AB) molded plastic body
- Terminals: solder plated ,solder able per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Weight: 0.003ounce,0.093 gram

SMC(DO-214AB)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	SS32	SS33	SS34	SS35	SS36	SS38	SS310	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length(See Fig. 1)	$I_{(AV)}$	3.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80.0							Amp
Maximum instantaneous forward voltage at 2.0A(Note 1)	V_F	0.55		0.75		0.85			Volts
Maximum Reverse Current $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	I_R	1.5				20.0			
Typical junction capacitance(Note 3)	C_J	250		160					
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55.0				17.0			
Operating Temperature Range	T_J	-65 to +125			-65 to +150				°C
Storage Temperature Range	T_{STG}	-65 to +150							

NOTES:

1. Pulse test: 300 μs pulse width, 1% duty cycle
2. P.C.B. mounted 0.55 X 0.55"(14 X 14mm) copper pad areas



Central Plate
Electronics Co.,Ltd.

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RATINGS AND CHARACTERISTIC CURVES (SS32 THRU SS310)

FIG.1-FORWARD CURRENT DERATING CURVE

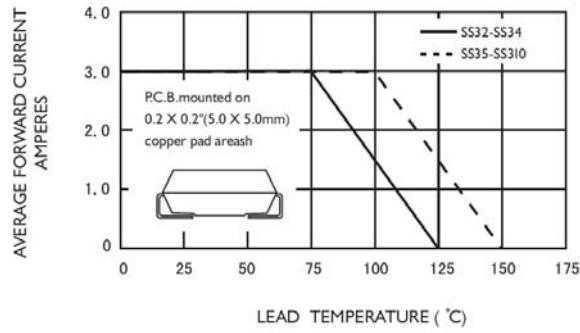


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

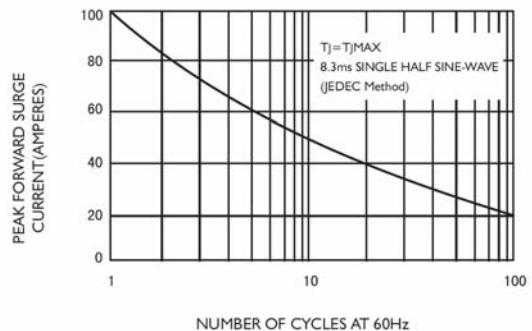


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

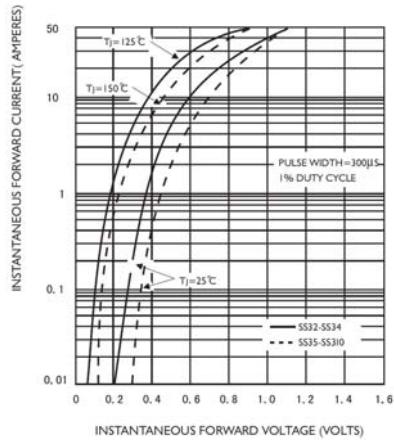


FIG.4-TYPICAL REVERSE CHARACTERISTICS

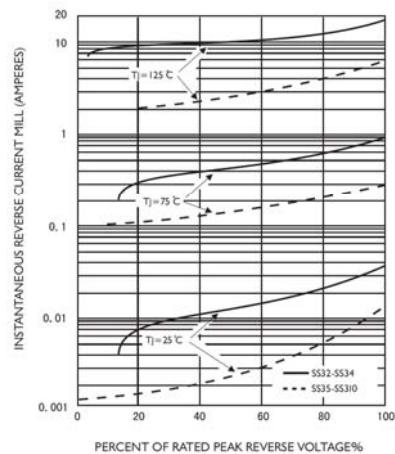


FIG.5-TYPICAL JUNCTION CAPACITANCE

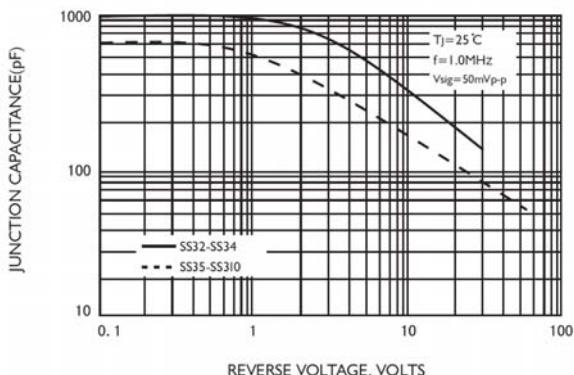


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

