

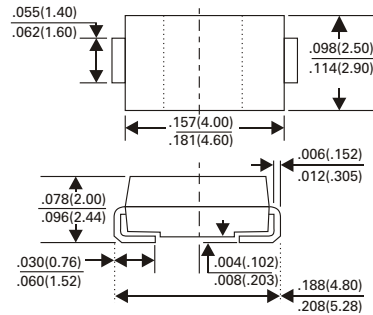
SK32 thru SK310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 1000 VOLTS CURRENT - 3.0 AMPERES



SMA/DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94v-0
- For surface mount 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.
- Pb free product at available : 99% Sn above meet Rohs Environment substance directive request

MECHANICAL DATA

Case : JEDEC DO-214AC molded plastic
Terminals : Solder plated, solderable per MIL-STD-750, method 2026
Polarity : Color band denotes cathode end (cathode)
Standard Package : 12mm tape (EIA STD EIA-481)
Weight : 0.002 ounce, 0.064gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Resistive or inductive load

	SYMBOL	SK32	SK33	SK34	SK35	SK36	SK38	SK39	SK310	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at T _L (Figure 1)	I _(AV)	3.0								Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100								Amps
Maximum Instantaneous Forward Voltage at 3.0A	V _F	0.55			0.7		0.85			Volts
Maximum DC Reverse Current (NOTE 1) T _A =25°C at Rated DC Blocking Voltage T _A =100°C	I _R	0.5 20								mA
Maximum Thermal Resistance (NOTE 2)	R _{θJA} R _{θJL}	20 75								°C / W
Operating Junction Temprature Range	T _J	-50 to +125								°C
Storage and Operating Temperature Range	T _{STG}	-50 to +150								°C

NOTES :

1. Pulse test with 300 μs pulse width, 1% duty cycle
2. Mounted on P.C.B Board with 8mm² (0.13mm thick) copper pad areas

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RATING AND CHARACTERISTICS CURVES SK32 THRU SK310

FIG.1 - FORWARD CURRENT DERATING CURVE

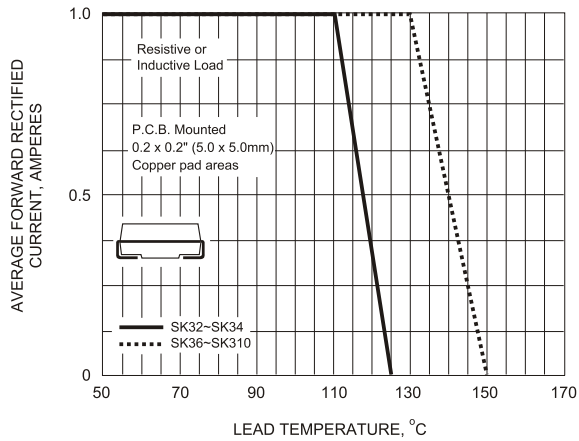


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

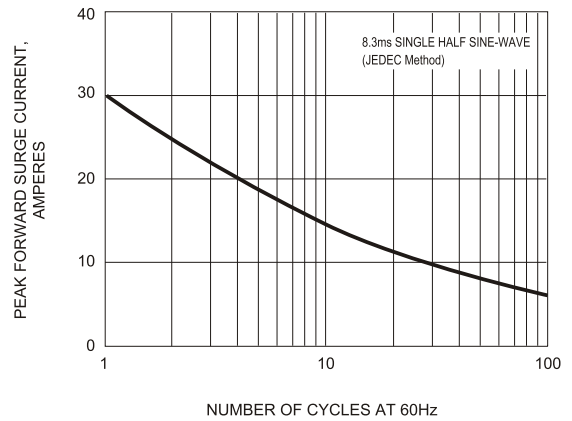


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

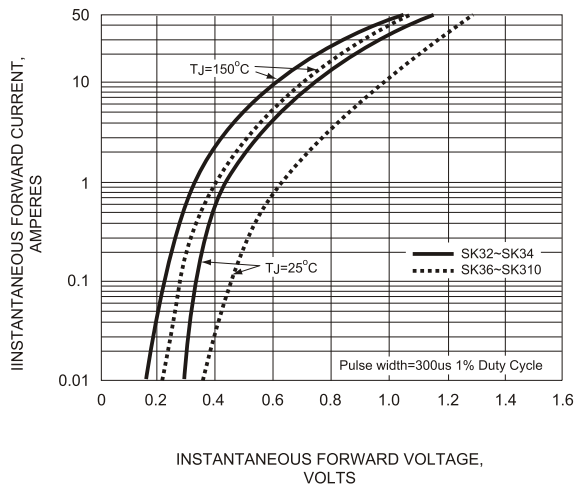


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

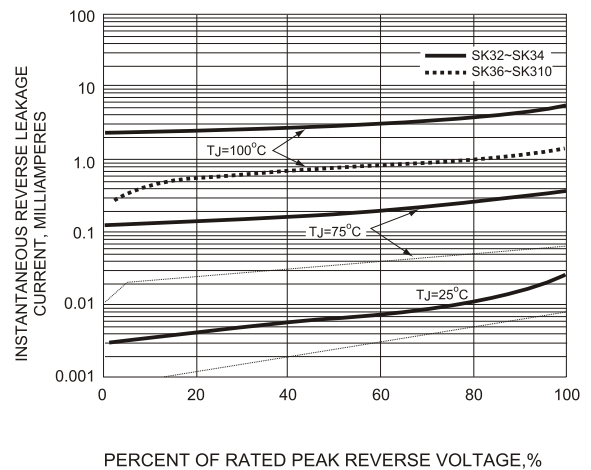


FIG.5 - TYPICAL JUNCTION CAPACITANCE

