



**CHENG-YI
ELECTRONIC**

SK32A thru SK310A

PB FREE PRODUCT

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.066 gram

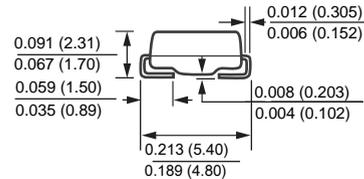
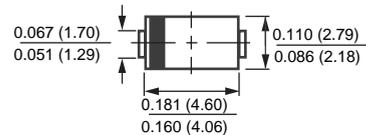
MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-0

* **Pb free plating**



SMA / DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	UNITS
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 at Derating Lead Temperature	I _O	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100							Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	25							°C/W
Typical Junction Capacitance (Note 2)	C _J	45							pF
Operating Temperature Range	T _J	-55 to + 125			-55 to + 150				°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	V _F	.50			.75		.85		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R				0.5				mAmps
					20				mAmps

- NOTES : 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Monuted with 0.4X0.4" (10.0X10.0mm²) copper pad area.
4. Part No. and packing suffix "G" be Pb Free product, example SK32A-TG.

RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

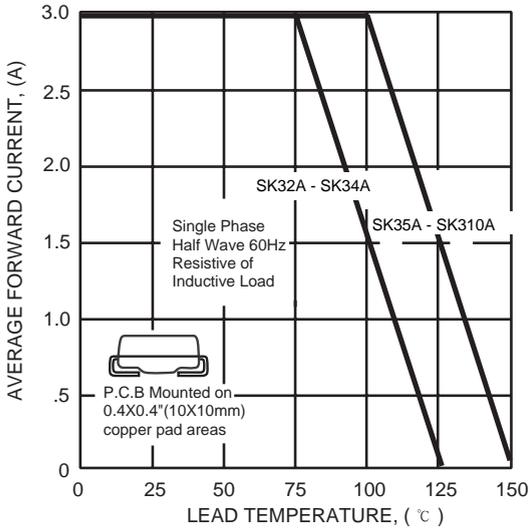


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

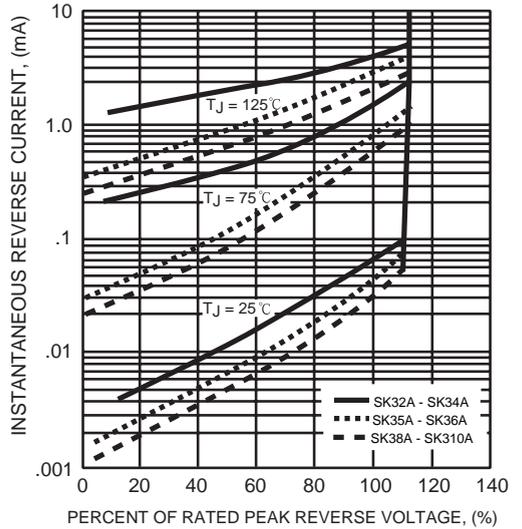


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

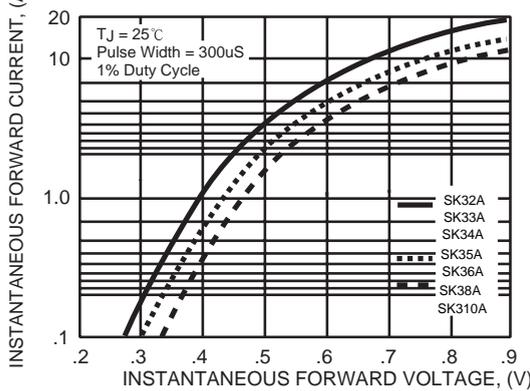


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

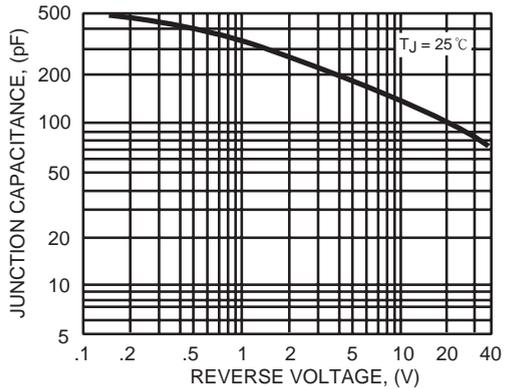


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

