

SK32A THRU SK36A

VOLTAGE 20V ~ 60V

3.0AMP Surface Mount Schottky Barrier Rectifiers

FEATURES

- * For surface mount applications
- * Epitaxial construction
- * Very low forward voltage drop
- * For use in low voltage, high frequency inverter, free wheeling

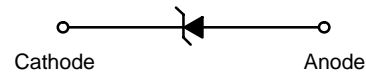
DO- 214AC

SMA



MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V- 0 rate flame retardant
- * Polarity: Color band denotes cathode end
- * Weight: 0.064 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SK32A	SK33	SK34A	SK35A	SK36A	UNITS
Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	3.0					A
Peak Forward Surge Current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC method)	100					A
Maximum Instantaneous Forward Voltage at 3.0A	0.50		0.70			V
Maximum DC Reverse Current Ta=25°C	0.5					mA
at Rated DC Blocking Voltage Ta=100°C	20					mA
Typical Junction Capacitance (Note1)	250					pF
Typical Thermal Resistance RJA (Note 2)	50					°C/W
Operating Temperature Range Tj	- 55 — +125					°C
Storage Temperature Range Tstg	- 55 — +150					°C

NOTES

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

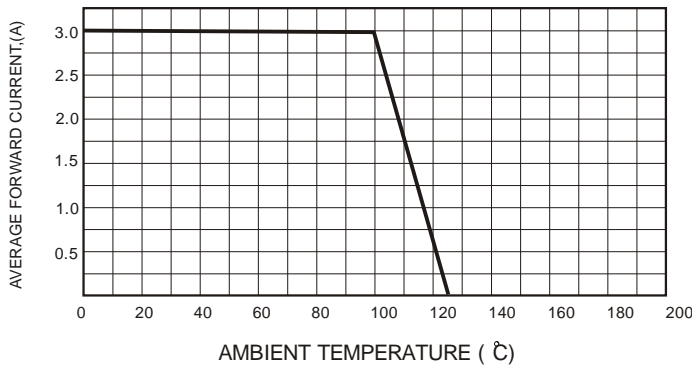


FIG.2-TYPICAL FORWARD CHARACTERISTICS

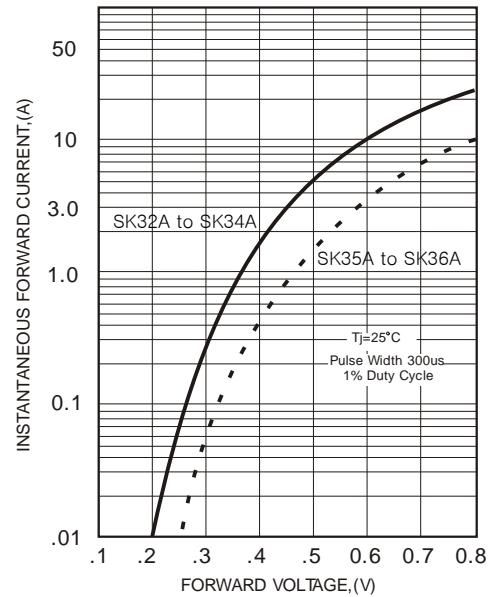


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

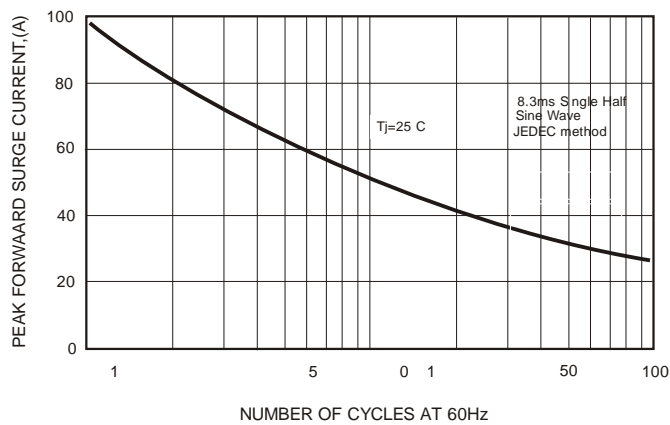


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

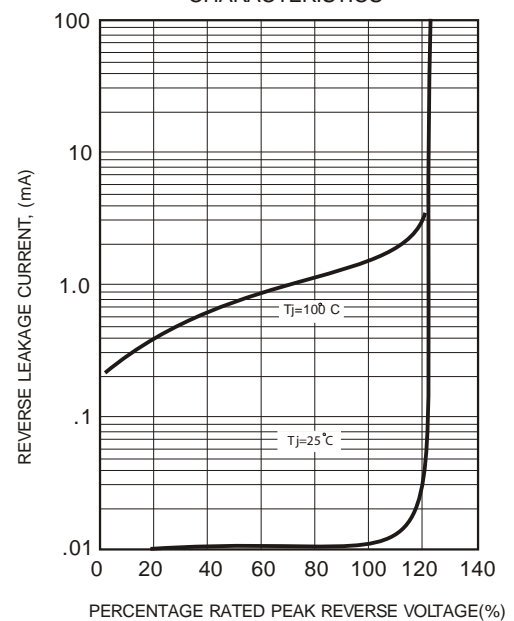
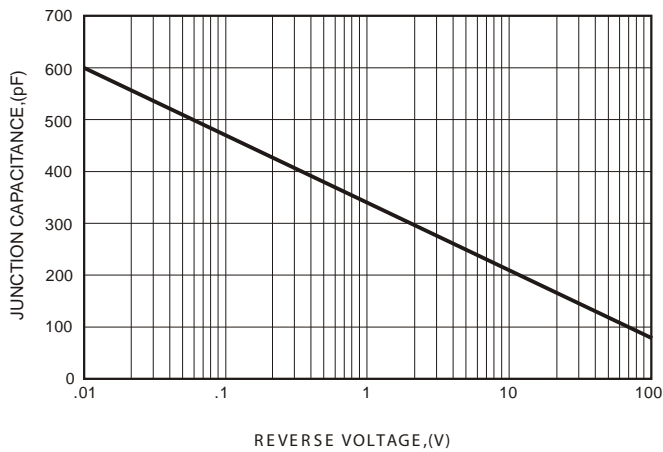


FIG.4-TYPICAL JUNCTION CAPACITANCE



Package Dimensions in inches and (millimeters)

