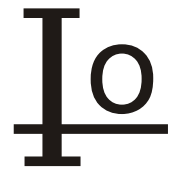


SK32 THRU SK310

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.066 grams
- * Lead Free Finish/RoHS Compliant

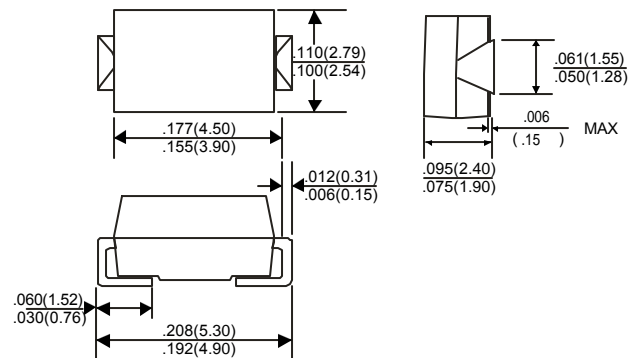
VOLTAGE RANGE

20 to 100 Volts

CURRENT

3.0 Ampere

DO-214AC



Dimensions in millimeters

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 | SK32 | SK33 | SK34 | SK35 | SK36 | SK38 | SK310 | UNITS |
|--|------------|------|------|------|------------|------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum RMS Voltage | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| Maximum DC Blocking Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectified Current | 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 | 0.55 | | 0.75 | | 0.85 | | | V |
| Maximum DC Reverse Current Ta=25°C | 500 | | | | | | | uA |
| at Rated DC Blocking Voltage Ta=100°C | 100 | | | | | | | mA |
| Typical Junction Capacitance (Note1) | 300 | | | | 250 | | | pF |
| Typical Thermal Resistance RθJA (Note 2) | 20 | | | | | | | °C/W |
| Operating Temperature Range Tj | -65 — +125 | | | | -65 — +150 | | | °C |
| Storage Temperature Range TSTG | -65 — +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 (SK32 THRU SK310)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

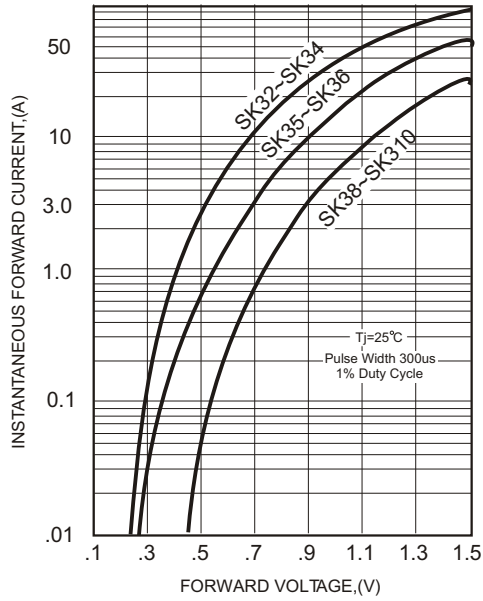


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

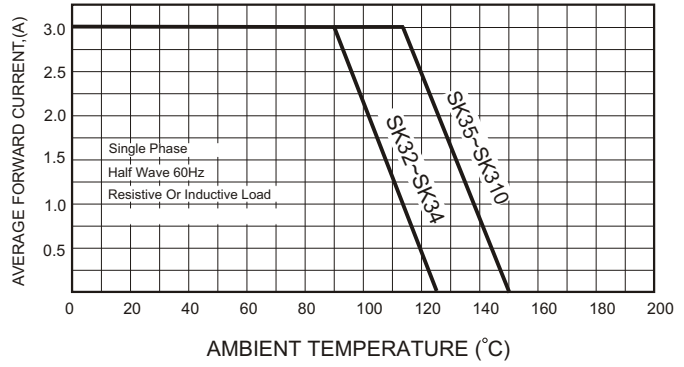


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

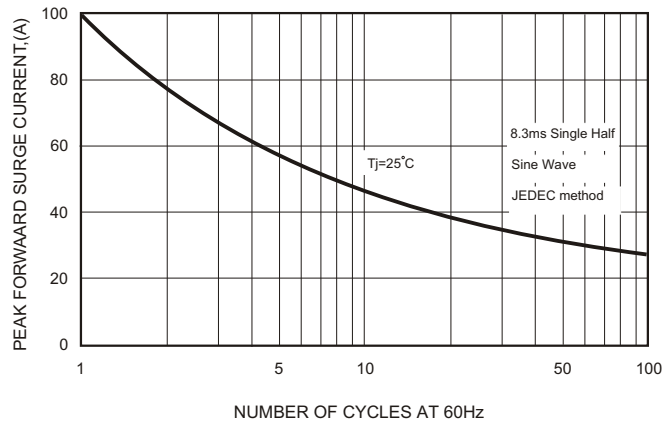


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

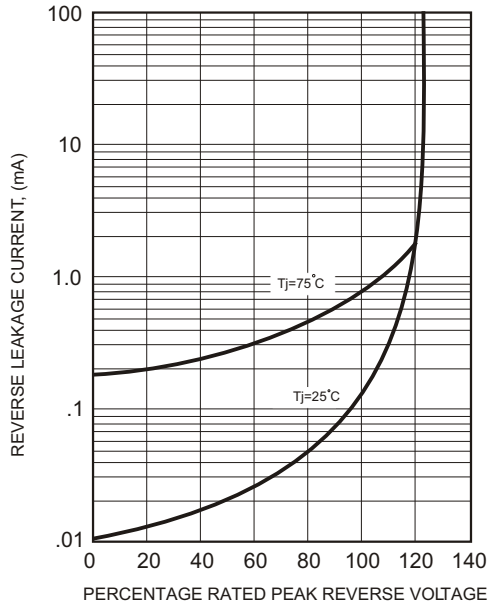


FIG.5-TYPICAL JUNCTION CAPACITANCE

