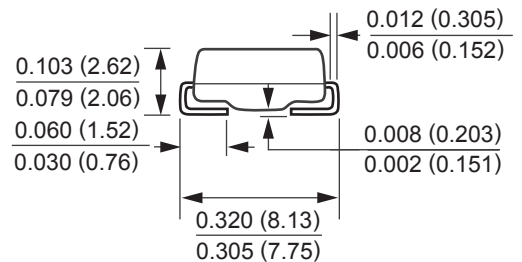
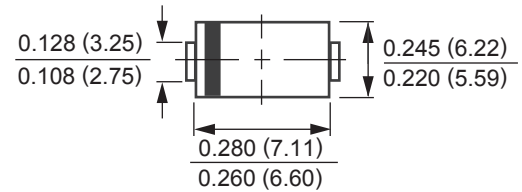


**FEATURES**

- \* Ideal for surface mounted applications
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High reliability
- \* High surge capability
- \* RoHS product for packing code suffix "G",  
Halogen free product for packing code suffix "H".

**MECHANICAL DATA**

Case: Molded plastic, DO-214AB(SMC)  
 Epoxy: UL 94V-O rate flame retardant  
 Lead:MIL-STD-202E method 208C guaranteed  
 Mounting position: Any  
 Weight: Approximated 0.231 gram



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%

| RATINGS   | SYMBOL           | SK32C       | SK33C | SK34C | SK35C | SK36C | SK38C | SK310C | SK315C      | SK320C | UNIT  |    |
|---|------------------|-------------|-------|-------|-------|-------|-------|--------|-------------|--------|-------|----|
| Marking Code  |                  | SK32C       | SK33C | SK34C | SK35C | SK36C | SK38C | SK310C | SK315C      | SK320C |       |    |
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub> | 20          | 30    | 40    | 50    | 60    | 80    | 100    | 150         | 200    | Volts |    |
| Maximum RMS Voltage   | V <sub>RMS</sub> | 14          | 21    | 28    | 35    | 42    | 56    | 70     | 105         | 140    | Volts |    |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>  | 20          | 30    | 40    | 50    | 60    | 80    | 100    | 150         | 200    | Volts |    |
| Maximum Average Forward Rectified Current   | I <sub>O</sub>   | 3.0         |       |       |       |       |       |        |             |        | Amps  |    |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I <sub>FSM</sub> | 80.0        |       |       |       |       |       |        |             |        | Amps  |    |
| Typical Thermal Resistance (Note 2)   | R <sub>θJC</sub> | 30          |       |       |       |       |       |        |             |        | °C/W  |    |
| Typical Junction Capacitance (Note 1)   | C <sub>J</sub>   | 180         |       |       | 150   |       | 110   |        | 100         |        | 80    | pF |
| Operating Temperature Range   | T <sub>J</sub>   | -55 to +125 |       |       |       |       |       |        | -55 to +150 |        |       | °C |
| Storage Temperature Range   | T <sub>STG</sub> | -55 to +150 |       |       |       |       |       |        |             |        | °C    |    |

| CHARACTERISTICS  | SYMBOL         | SK32C | SK33C | SK34C | SK35C | SK36C | SK38C | SK310C | SK315C | SK320C | UNIT  |       |
|--|----------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|
| Maximum Forward Voltage at 3.0A DC                           | V <sub>F</sub> | 0.55  |       |       | 0.70  |       | 0.85  |        | 0.87   |        | 0.90  | Volts |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | I <sub>R</sub> | 0.5   |       |       |       |       |       |        |        |        | mAmps |       |
|  |                | 20    |       |       |       |       |       |        |        |        |       |       |

**NOTES:**

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Case.

## RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

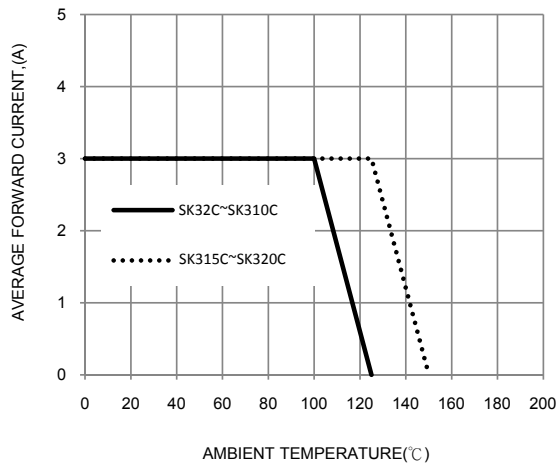


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

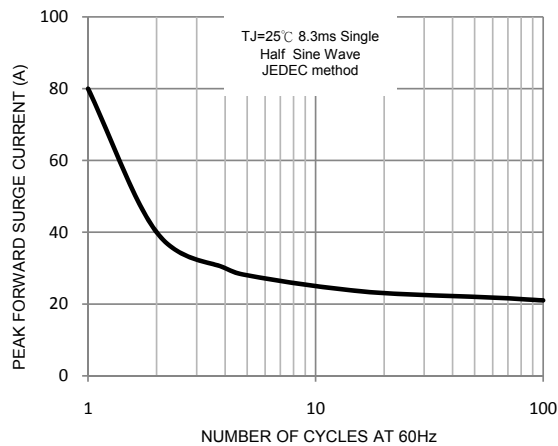


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

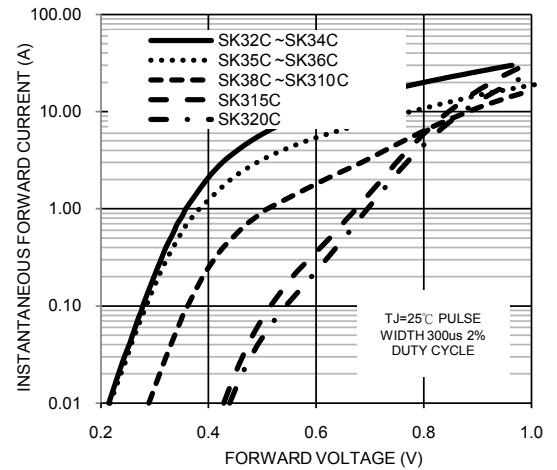


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

