

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

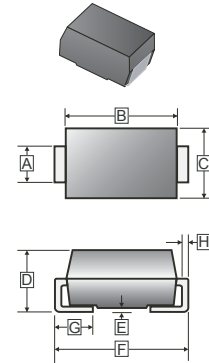
FEATURES

- Low profile package
- Ideal for automated placements
- Guard ring for over voltage protection
- Low forward voltage drop

MECHANICAL DATA

- Cases: SMA
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free plating (Tin finish)
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.062 grams (approximately)

SMA



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|-------|
| | Min. | Max. | | Min. | Max. |
| A | 1.25 | 1.65 | E | 0.051 | 0.203 |
| B | 3.99 | 4.60 | F | 4.78 | 5.28 |
| C | 2.50 | 2.90 | G | 0.76 | 1.52 |
| D | 1.98 | 2.44 | H | 0.152 | 0.305 |

PACKAGE INFORMATION

| Package | MPQ | Leader Size |
|---------|-----|-------------|
| SMA | 5K | 13' inch |

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, de-rate current by 20%.)

| Parameter | Symbol | Rating | Unit |
|--|-------------------|---------|--------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 150 | V |
| Maximum RMS Voltage | V_{RMS} | 105 | V |
| Maximum DC Blocking Voltage | V_{DC} | 150 | V |
| Maximum Average Forward Rectified Current | I_F | 1 | A |
| Peak Forward Current @ 8.3 ms Half Sine | I_{FSM} | 30 | A |
| Maximum Instantaneous @ $I_F=1.0A$ | V_F | 0.87 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ² | $T_A=25^\circ C$ | 0.2 | mA |
| | $T_A=100^\circ C$ | 5.0 | |
| Typical Junction Capacitance ¹ | C_J | 35 | pF |
| Typical Thermal Resistance | $R_{\theta JA}$ | 70 | °C / W |
| | $R_{\theta JC}$ | 35 | |
| Operating & Storage Temperature | T_J, T_{STG} | -55~150 | °C |

Notes:

1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Pulse test: 300us pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

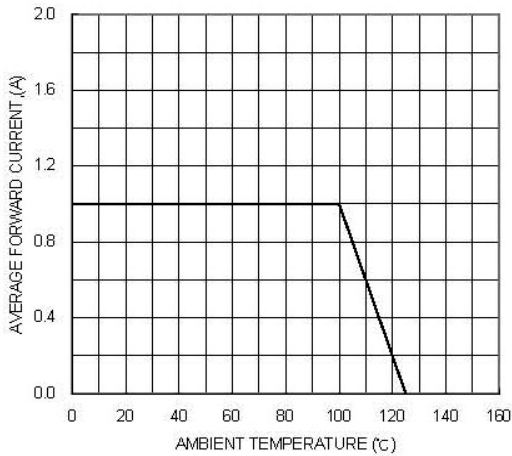


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

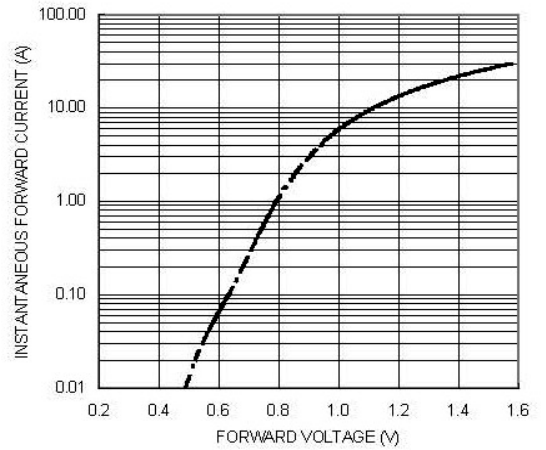


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

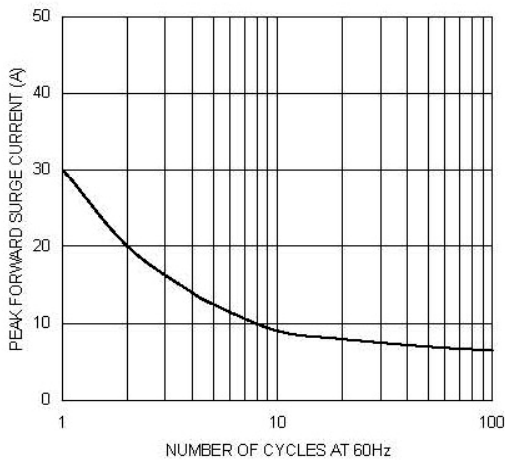


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

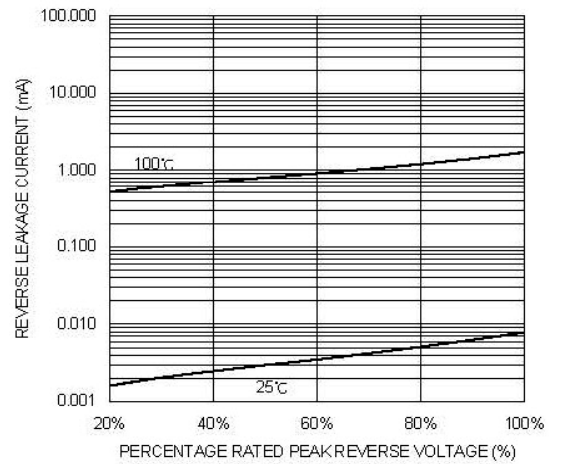


FIG. 5-TYPICAL JUNCTION CAPACITANCE

