

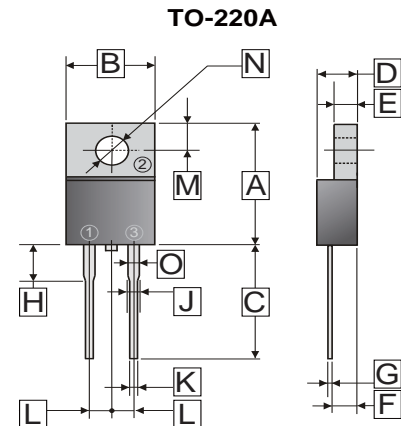
RoHS compliant product
A suffix of "-C" specifies halogen free

FEATURES

- High current capability
- High reliability
- High surge current capability
- Epitaxial construction
- Low forward voltage drop

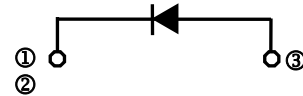
MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.933 grams (Approximately)



Dimensions in millimeters

| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|-------|
| | Min. | Max. | | Min. | Max. |
| A | 14.68 | 15.50 | H | 3.57 | 4.03 |
| B | 9.7 | 10.4 | J | - | 1.30 |
| C | 13.06 | 14.62 | K | 0.72 | 0.96 |
| D | 4.22 | 4.98 | L | 4.84 | 5.32 |
| E | 1.14 | 1.38 | M | 2.48 | 2.98 |
| F | 2.20 | 2.98 | N | φ 3.7 | φ 3.9 |
| G | 0.27 | 0.55 | O | 1.12 | 1.37 |



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%.)

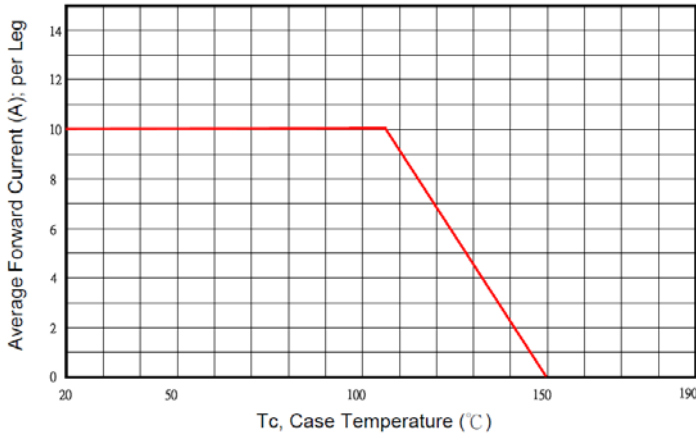
| Parameter | Symbol | Rating | Unit |
|--|-----------------|-----------------------------------|--------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 200 | V |
| Working Peak Reverse Voltage | V_{RSM} | 200 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | V |
| Maximum Average Forward Rectified Current | I_F | 10 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method) | I_{FSM} | 180 | A |
| Maximum Instantaneous Forward Voltage | V_F | $I_F=10, T_F = 25^\circ\text{C}$ | 0.92 |
| | | $I_F=10, T_F = 125^\circ\text{C}$ | 0.8 |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ³ | I_R | $T_A = 25^\circ\text{C}$ | 0.02 |
| | | $T_A = 125^\circ\text{C}$ | 5 |
| Typical Junction Capacitance ¹ | C_J | 250 | pF |
| Typical Thermal Resistance ² | $R_{\theta JC}$ | 4.0 | °C / W |
| Operating Temperature Range T_J | T_J | -50~150 | °C |
| Storage Temperature Range T_{STG} | T_{STG} | -65~175 | °C |

Notes:

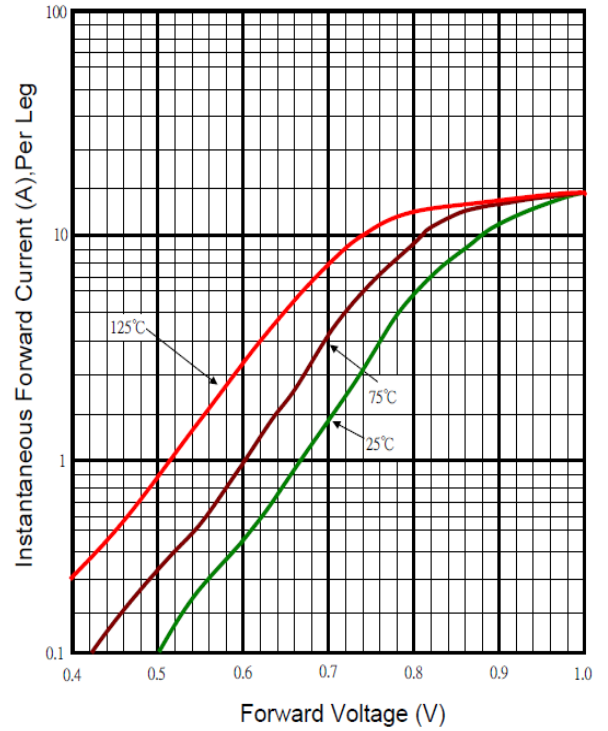
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse test: 300uS pulse width, 2% duty cycle

RATINGS AND CHARACTERISTIC CURVES

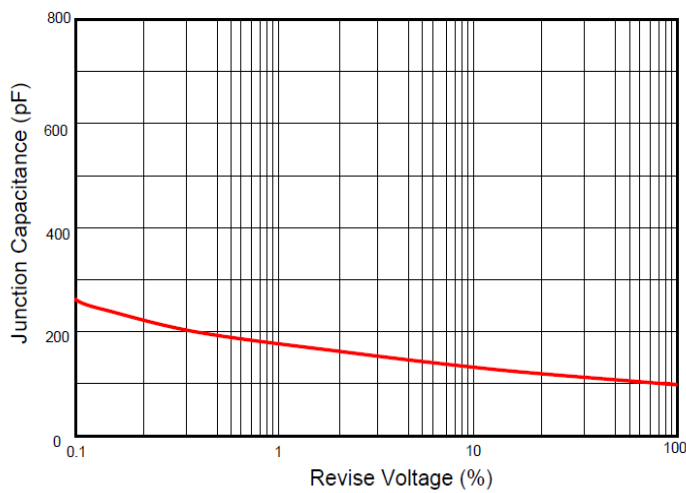
Typical Forward Current Derating Curve



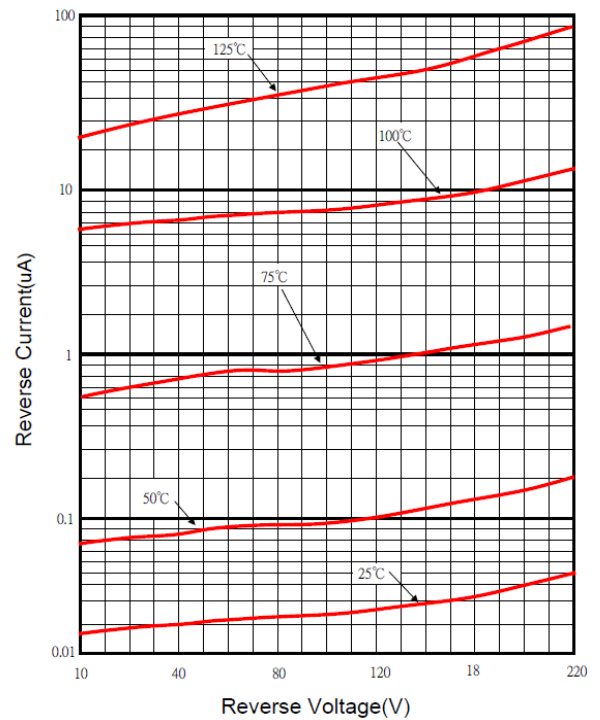
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

