

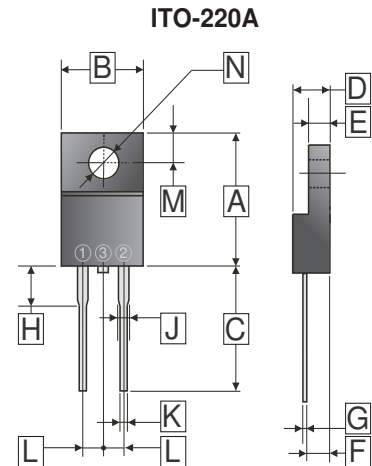
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

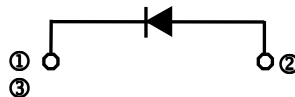
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

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: 2.064 grams (approximate)



Dimensions in millimeters



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|--------|
| | Min. | Max. | | Min. | Max. |
| A | 14.70 | 15.30 | H | 3.50 | 5.30 |
| B | 9.50 | 10.50 | J | 1.10 | 1.50 |
| C | 12.40 | 14.30 | K | 0.50 | 0.90 |
| D | 4.30 | 4.70 | L | 2.44 | 2.64 |
| E | 2.50 | 3.20 | M | 2.50 | 2.90 |
| F | 2.40 | 2.9 | N | φ 3.1 | φ 3.58 |
| G | 0.30 | 0.70 | | | |

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%.)

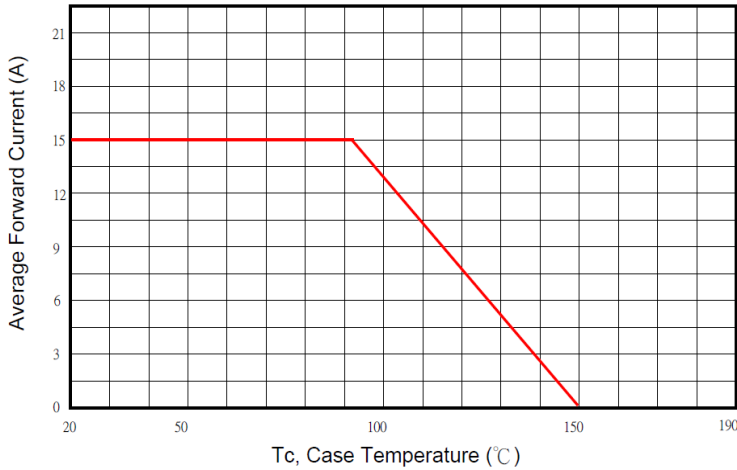
| Parameter | Symbol | Rating | Unit |
|--|-----------------|----------------------------|-------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 200 | V |
| Working Peak Reverse Voltage | V_{RSM} | 200 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | V |
| Maximum Average Forward Rectified Current | I_F | 15 | 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 | $I_F=15A, T_A=25^\circ C$ | 0.92 |
| | | $I_F=15A, T_A=125^\circ C$ | 0.8 |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ⁴ | I_R | $T_A=25^\circ C$ | 0.02 |
| | | $T_A=125^\circ C$ | 3 |
| Typical Junction Capacitance ¹ | C_J | 350 | pF |
| Typical Thermal Resistance ² | $R_{\theta JC}$ | 4 | °C / W |
| Typical Thermal Resistance ³ | $R_{\theta JA}$ | 15 | °C / W |
| Voltage Rate Of Change (Rated V_R) | dv / dt | 10000 | V / μs |
| Operating Temperature Range T_J | T_J | -50~150 | °C |
| Storage Temperature Range T_{STG} | T_{STG} | -65~175 | °C |

Notes:

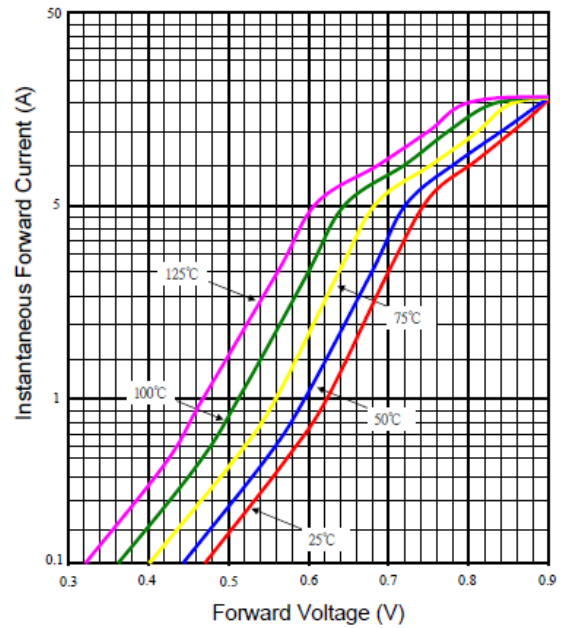
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Thermal Resistance Junction to Ambient.
4. Pulse test: 300 μs pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

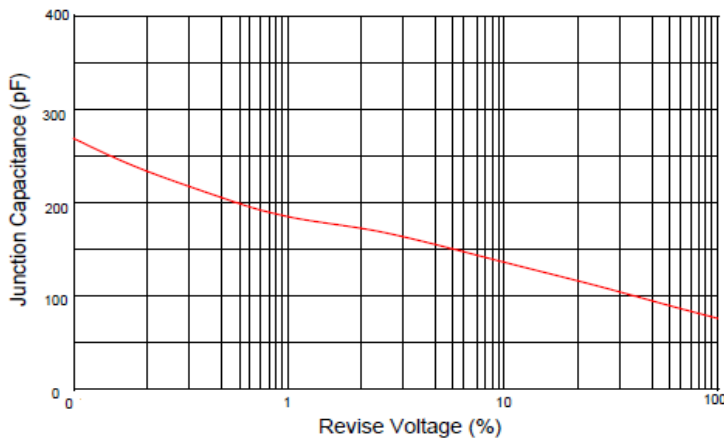
Typical Forward Current Derating Curve



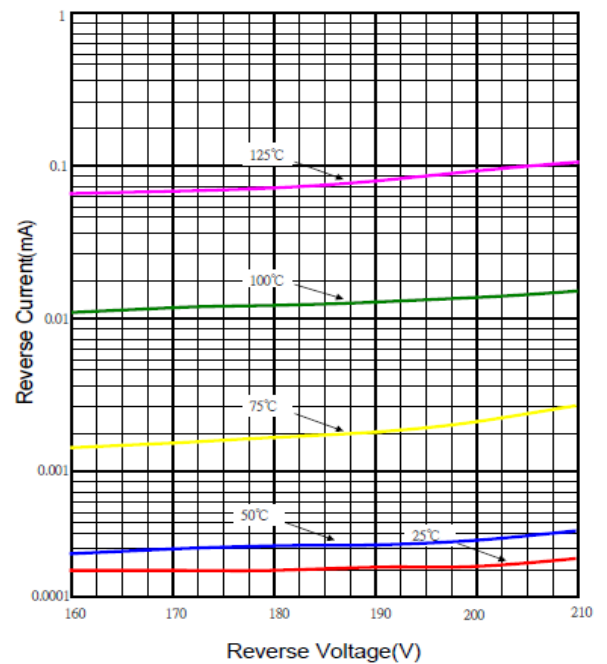
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

