

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

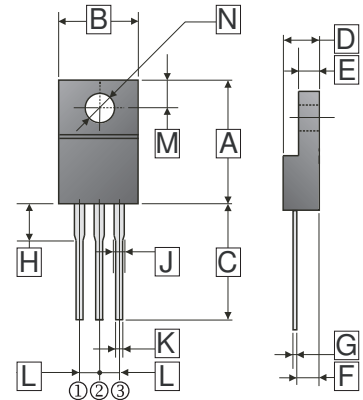
FEATURES

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

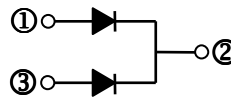
MECHANICAL DATA

- 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

ITO-220J



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 14.80 | 15.20 | H | 3.60 | 4.00 |
| B | 9.96 | 10.36 | J | 1.30 REF. | |
| C | 13.20 REF. | | K | 0.50 | 0.75 |
| D | 4.30 | 4.70 | L | 2.54 REF. | |
| E | 2.80 | 3.20 | M | 2.70 REF. | |
| F | 2.50 | 2.90 | N | φ 3.5 REF. | |
| G | 0.50 | 0.75 | | | |



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} | 150 | V |
| Working Peak Reverse Voltage | V_{RWM} | 150 | V |
| Maximum DC Blocking Voltage | V_{DC} | 150 | V |
| Maximum Average Forward Rectified Current | I_F | 10 | A |
| (Per Leg) | | 20 | |
| Peak Forward Surge Current, 8.3 ms single half sine-wave | I_{FSM} | 180 | A |
| Power dissipation | P_D | 2 | W |
| Typical Thermal Resistance | $R_{\theta JA}$ | 50 | °C/W |
| Typical Thermal Resistance | $R_{\theta JC}$ | 4 | °C/W |
| Operating and Storage Temperature Range | T_J, T_{STG} | 150, -55~150 | °C |

ELECTRICAL CHARACTERISTICS

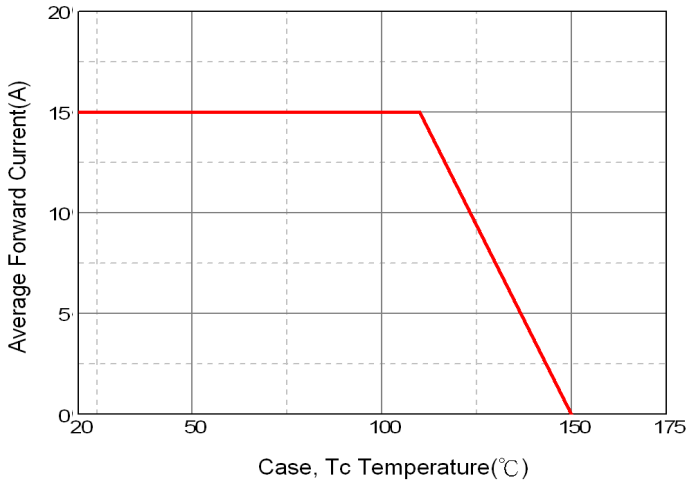
| Parameter | Symbol | MIN. | Typ. | Max. | Unit | Test Condition |
|--|----------|------|------|------|------|-----------------------------|
| Reverse voltage | V_{BR} | 150 | - | - | V | |
| Maximum Instantaneous Forward Voltage | V_F | - | 0.83 | 0.89 | V | $I_F=10A, T_J=25^\circ C$ |
| | | - | 0.73 | - | | $I_F=10A, T_J=100^\circ C$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ² | I_R | - | - | 0.5 | mA | $V_R=150V, T_J=25^\circ C$ |
| | | - | - | 2 | | $V_R=150V, T_J=100^\circ C$ |
| Typical Junction Capacitance ¹ | C_J | - | 90 | - | pF | |

NOTES:

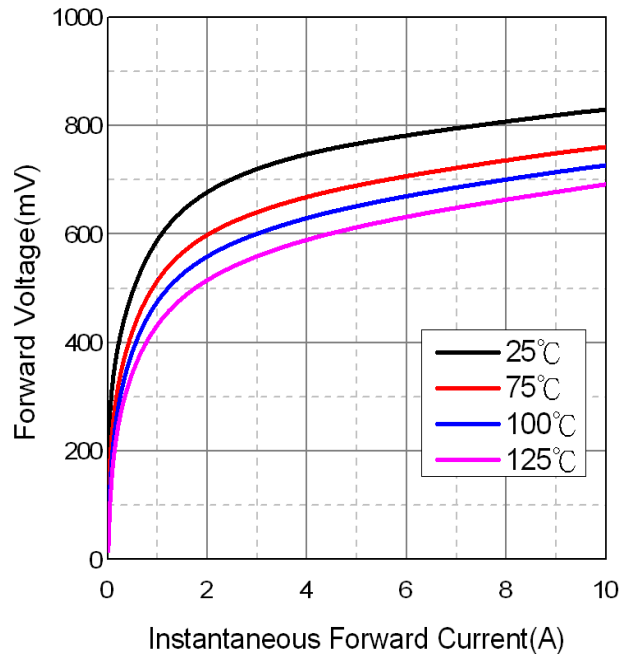
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse Test : Pulse Width = 300 μs , Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

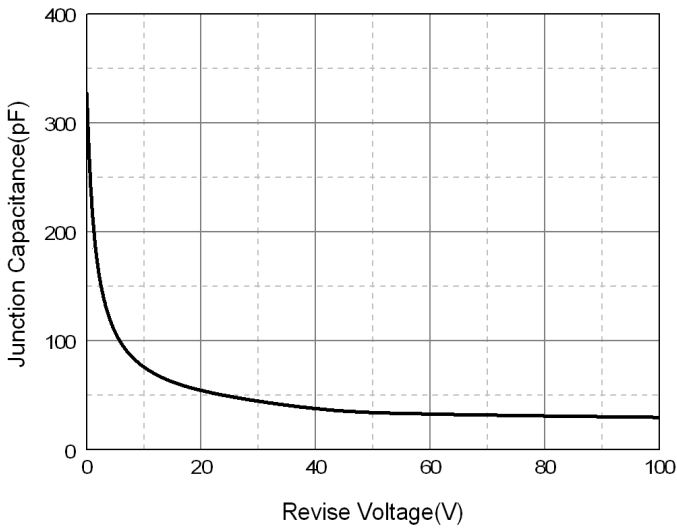
Typical Forward Current Derating Curve



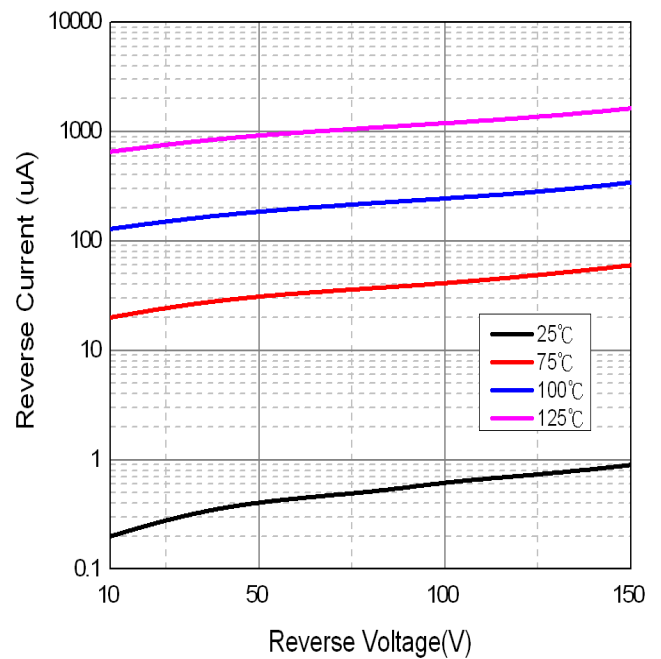
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

