

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

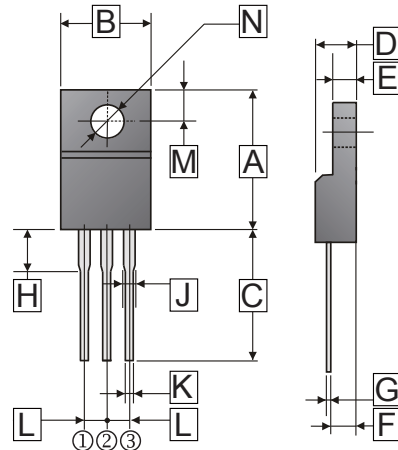
FEATURES

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

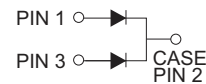
MECHANICAL DATA

- 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
- Weight: 1.93 grams (Approximately)

ITO-220



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 14.60 | 15.70 | H | 2.70 | 3.80 |
| B | 9.50 | 10.50 | J | 0.90 | 1.50 |
| C | 12.60 | 14.00 | K | 0.50 | 0.90 |
| D | 4.30 | 4.70 | L | 2.34 | 2.74 |
| E | 2.30 | 3.2 | M | 2.40 | 3.00 |
| F | 2.30 | 2.80 | N | ∅3.0 | ∅3.4 |
| 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%.)

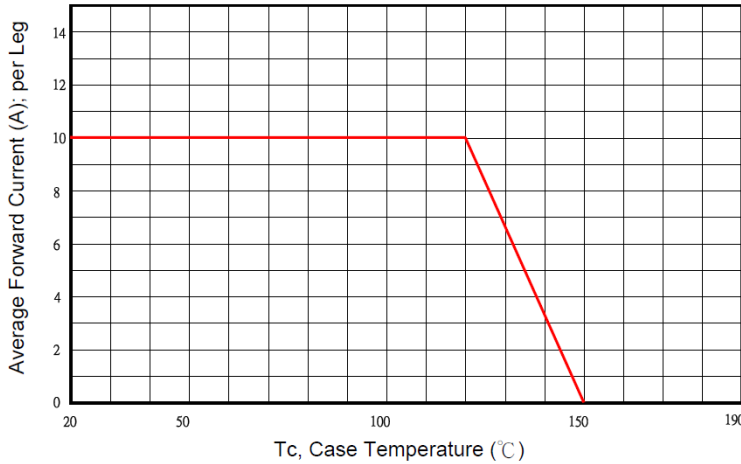
| Parameter | Symbol | Rating | Unit |
|--|-----------------|---|-------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 60 | V |
| Working Peak Reverse Voltage | V_{RSM} | 60 | V |
| Maximum DC Blocking Voltage | V_{DC} | 60 | V |
| Maximum Average Forward Rectified Current | (Per Leg) | 10 | A |
| | (Per Device) | 20 | |
| Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method) | I_{FSM} | 200 | A |
| Maximum Instantaneous Forward Voltage | V_F | $I_F=10\text{ A}, T_A=25^\circ\text{C}, \text{ per leg}$ | 0.71 |
| | | $I_F=10\text{ A}, T_A=100^\circ\text{C}, \text{ per leg}$ | 0.66 |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ⁴ | I_R | $T_A = 25^\circ\text{C}$ | 0.03 |
| | | $T_A = 100^\circ\text{C}$ | 15 |
| Typical Junction Capacitance ¹ | C_J | 450 | pF |
| Typical Thermal Resistance $R_{\theta JC}$ ² | $R_{\theta JC}$ | 4 | °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:

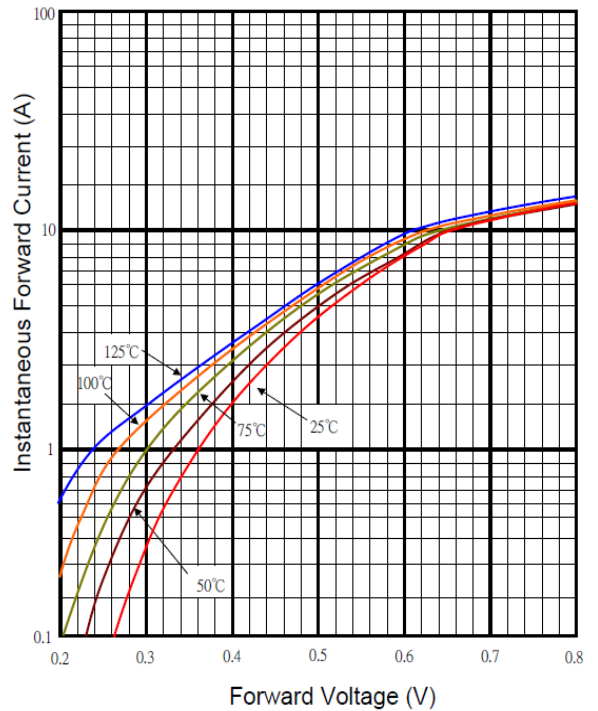
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test: Pulse Width =300uS, Duty Cycle<=2%.

RATINGS AND CHARACTERISTIC CURVES

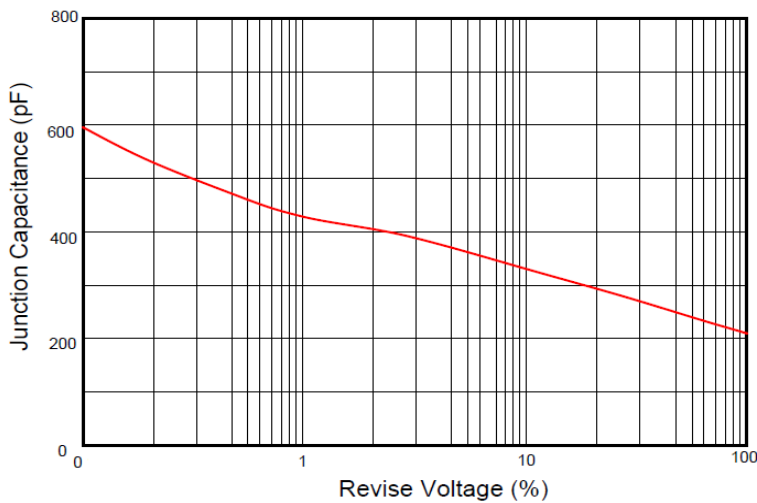
Typical Forward Current Derating Curve



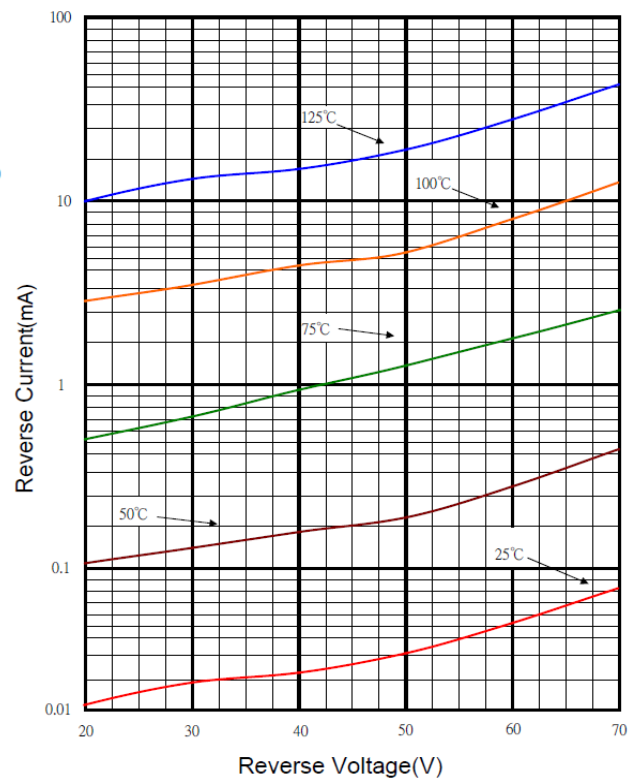
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

