

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

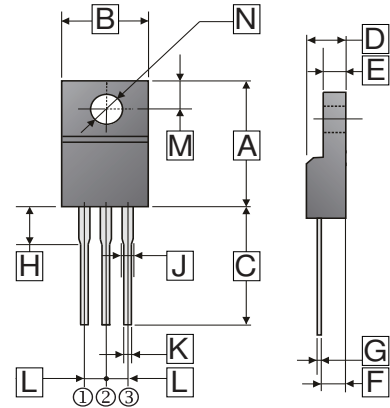
FEATURES

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

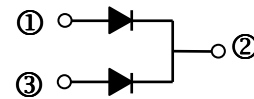
MECHANICAL DATA

- 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: 1.64 grams (approximate)

ITO-220



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|-------|
| | Min. | Max. | | Min. | Max. |
| A | 14.60 | 15.60 | H | 3.00 | 3.80 |
| B | 9.50 | 10.50 | J | 0.90 | 1.50 |
| C | 12.60 | 13.70 | K | 0.50 | 0.90 |
| D | 4.30 | 4.70 | L | 2.34 | 2.74 |
| E | 2.50 | 3.2 | M | 2.40 | 2.90 |
| F | 2.40 | 2.80 | N | φ 3.0 | φ 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 | I_F | 7.5 | A |
| | Per Device | | 15 | |
| 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 | $I_F=7A, T_A=25^\circ C$, per leg | V_F | 0.59 | V |
| | $I_F=7A, T_A=125^\circ C$, per leg | | 0.54 | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ³ | $T_A = 25^\circ C$ | I_R | 0.2 | mA |
| | $T_A = 125^\circ C$ | | 15 | |
| Typical Junction Capacitance ¹ | | C_J | 250 | pF |
| Typical Thermal Resistance ² | | $R_{\theta JC}$ | 8 | °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} | -65~150 | °C |

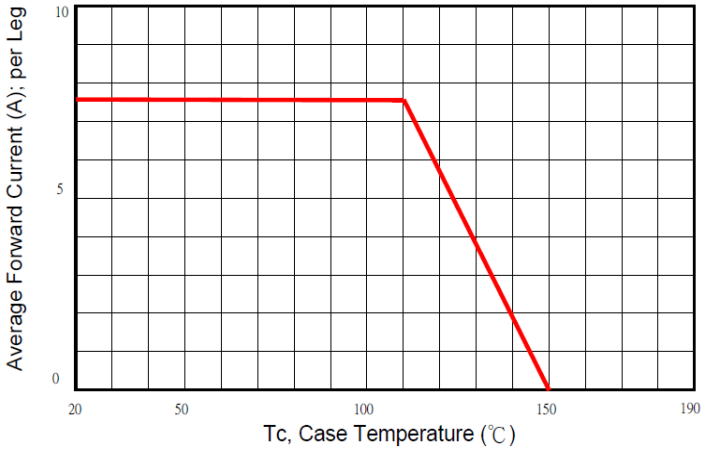
Notes:

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

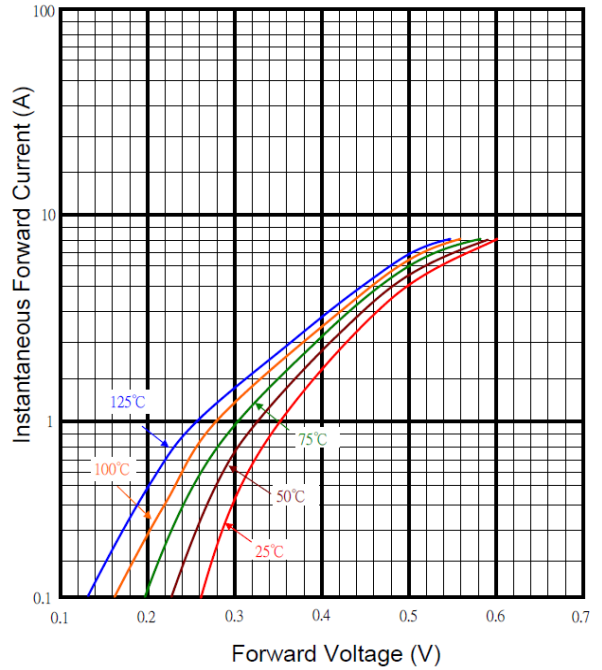
Any changes of specification will not be informed individually.

RATINGS AND CHARACTERISTIC CURVES

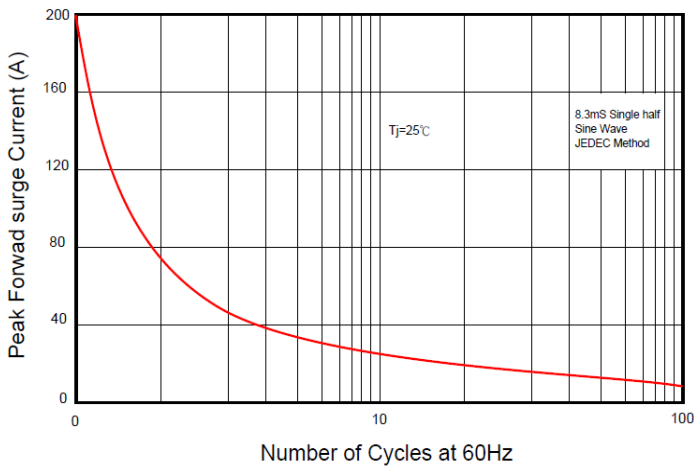
Typical Forward Current Derating Curve



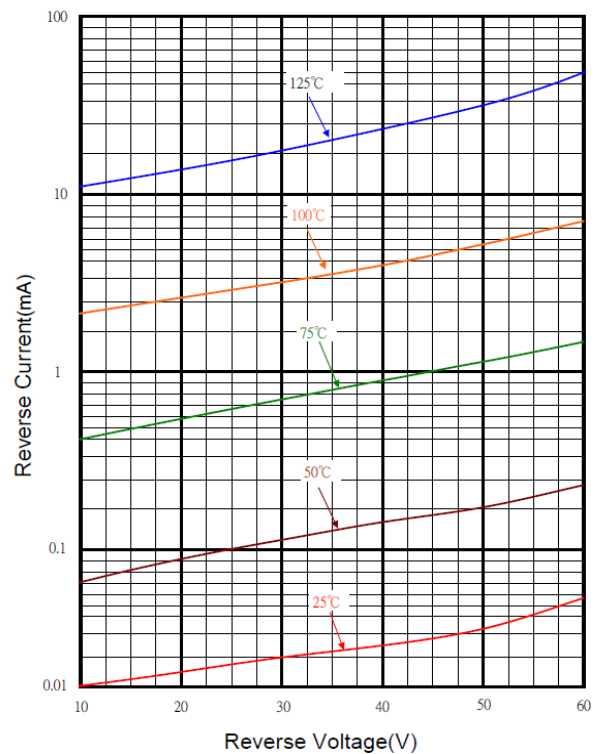
Typical Forward Characteristic



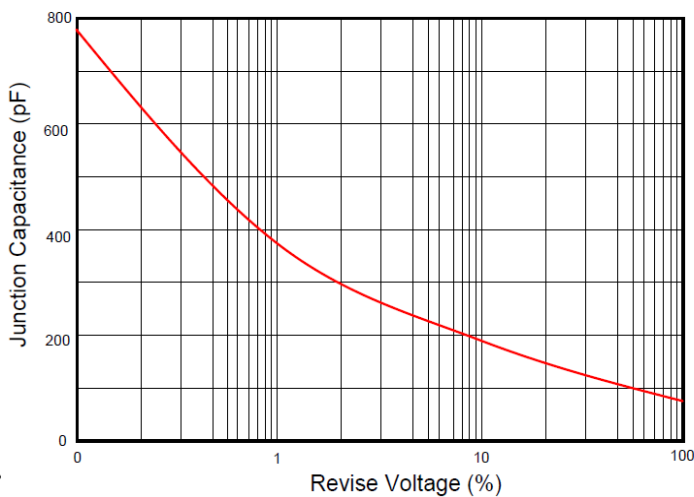
Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance



http:

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