

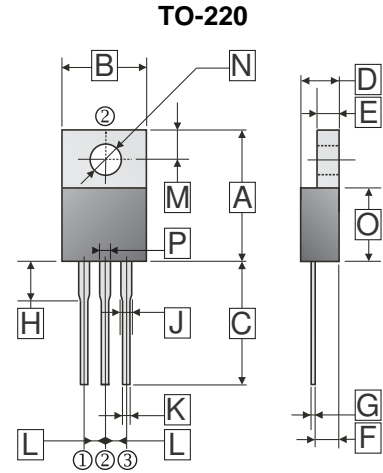
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

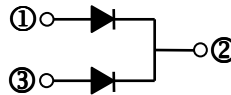
- Trench Barrier Schottky technology
- Low forward voltage drop
- Low reverse current
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

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



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 14.22 | 16.51 | J | 0.7 | 1.78 |
| B | 9.65 | 10.67 | K | 0.38 | 1.02 |
| C | 12.50 | 14.75 | L | 2.39 | 2.69 |
| D | 3.56 | 4.90 | M | 2.50 | 3.43 |
| E | 0.51 | 1.45 | N | 3.10 | 4.09 |
| F | 2.03 | 2.92 | O | 8.38 | 9.65 |
| G | 0.31 | 0.76 | P | 0.89 | 1.45 |
| H | 3.5 | 4.5 | | | |



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 |
| (Per Leg) | | 20 | |
| (Per Device) | | | |
| Peak Forward Surge Current, 8.3 ms single half sine-wave | I_{FSM} | 200 | A |
| Voltage Rate of Change (Rated V_R) | dv/dt | 10000 | V / μs |
| Typical Thermal Resistance | $R_{\theta JC}$ | 2 | $^{\circ}C / W$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | -40~150 | $^{\circ}C$ |

ELECTRICAL CHARACTERISTICS

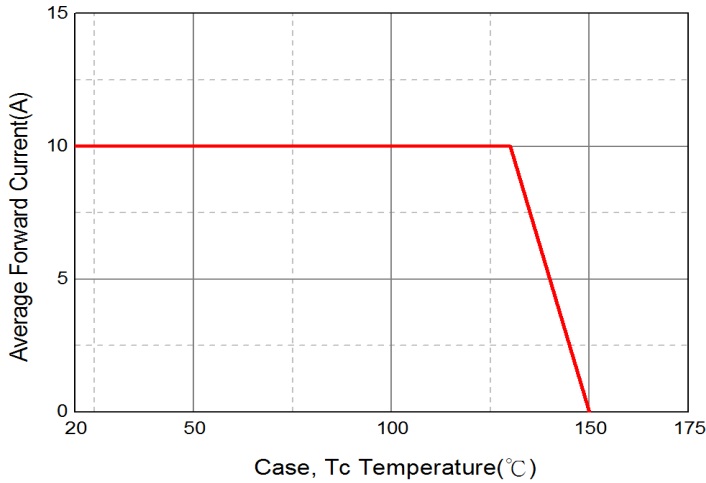
| Parameter | Symbol | Typ. | Max. | Unit | Test Condition |
|--|--------|------|------|------|---------------------------------|
| Maximum Instantaneous Forward Voltage | V_F | 0.7 | 0.74 | V | $I_F = 3A, T_J = 25^{\circ}C$ |
| | | 0.85 | 0.95 | | $I_F = 10A, T_J = 25^{\circ}C$ |
| | | 0.7 | - | | $I_F = 10A, T_J = 125^{\circ}C$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage ² | I_R | - | 0.2 | mA | $T_J = 25^{\circ}C$ |
| | | - | 20 | | $T_J = 100^{\circ}C$ |
| Typical Junction Capacitance ¹ | C_J | 255 | - | pF | |

NOTES:

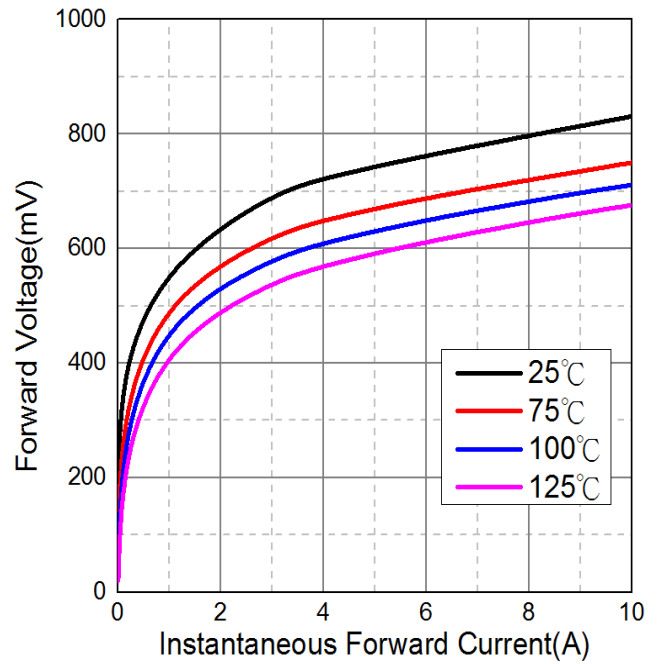
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse Test : Pulse Width = 300 μs , Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

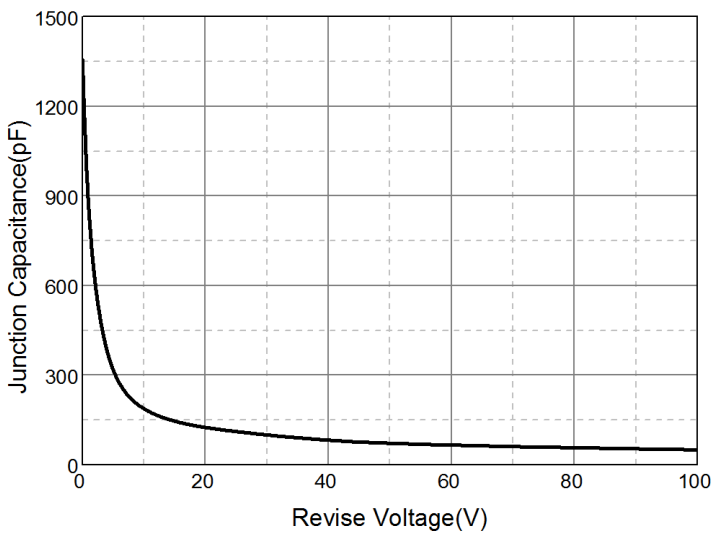
Typical Forward Current Derating Curve



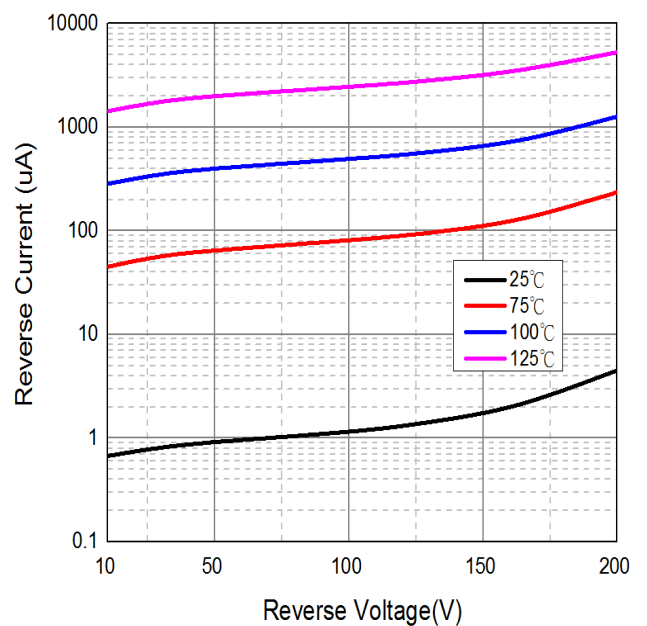
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

