

40 AMPERES SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage 150V

Forward Current 40 A

FEATURES

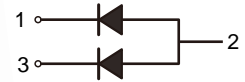
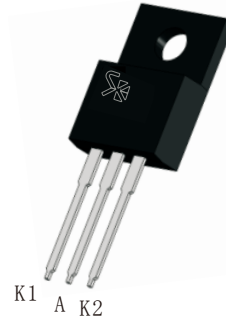
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

Mechanical data

- Case: TO-220F
- Approx. Weight: 2.1g (0.07oz)
- Terminals: Lead solderable per MIL-STD-202, Method 208

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified



TO-220F

| Parameter | Symbol | Spec. Limit | | | Unit |
|---|-------------|-----------------------|------|------|---------|
| | | Min. | Typ. | Max. | |
| Max. Repetitive Peak Reverse Voltage @0.5mA | V_{RRM} | 150 | | | V |
| Max. Average Forward Rectified Current Per diode | $I_{F(AV)}$ | | | 20 | A |
| Per device | | | | 40 | |
| Forward Voltage Drop Per diode | V_F | | 0.64 | 0.68 | V |
| | | $I_F=3A$ $I_F=10A$ | | | |
| Max. Reverse Current at V_{RRM} @150V | I_R | | 2 | 10 | μA |
| Operating Temperature Range | T_J | -55 | | +150 | °C |
| Storage Temperature Range | T_{STG} | -55 | | +150 | °C |

Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

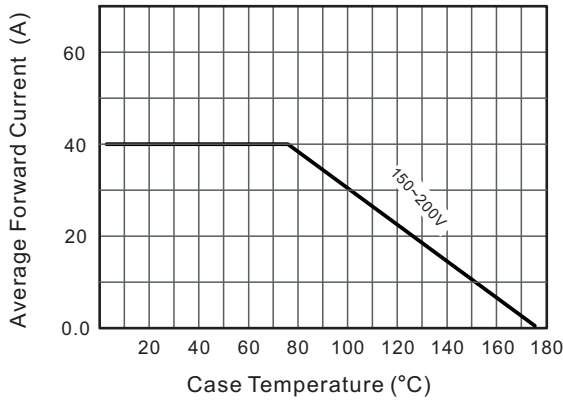


Fig.2 Typical Reverse Characteristics

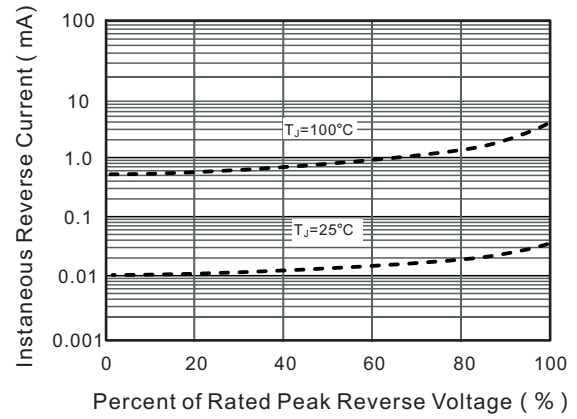


Fig.3 Typical Forward Characteristic(per leg)

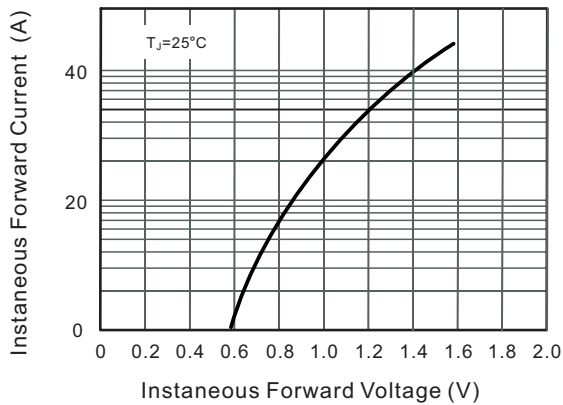


Fig.4 Typical Junction Capacitance

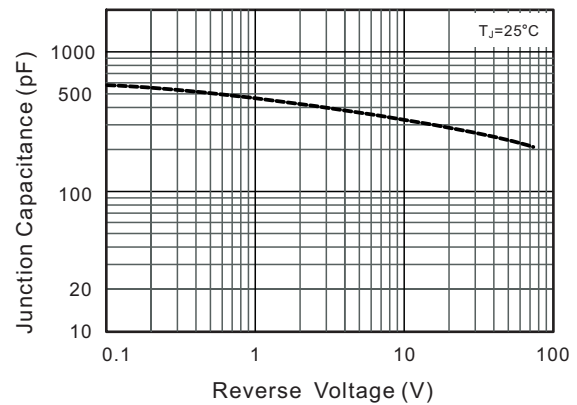


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

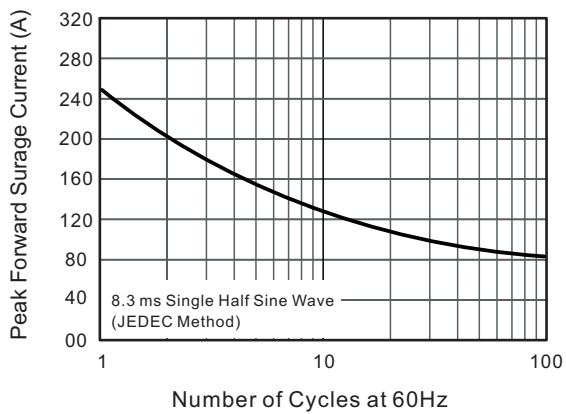
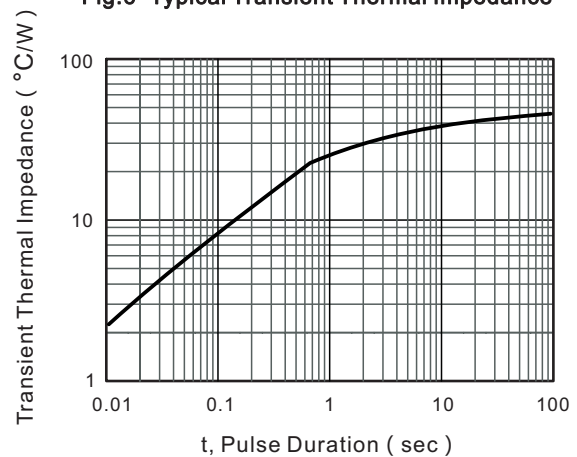


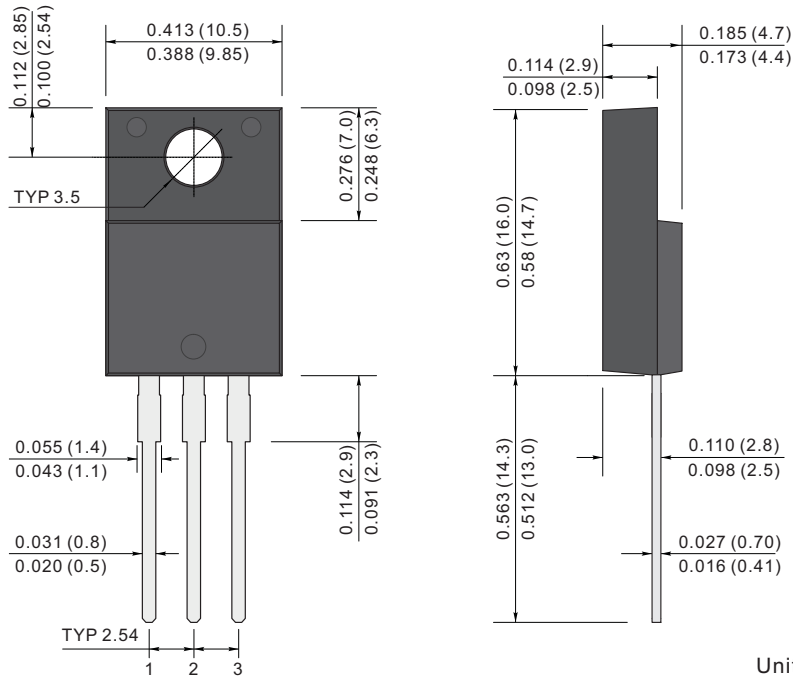
Fig.6- Typical Transient Thermal Impedance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

TO-220F



Unit:inch (mm)