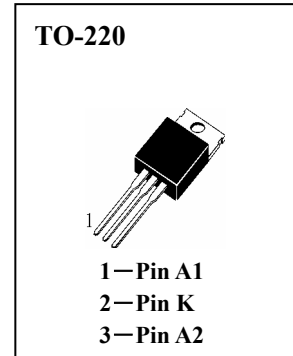


20A SCHOTTKY BARREIER RECTIFIER

Features

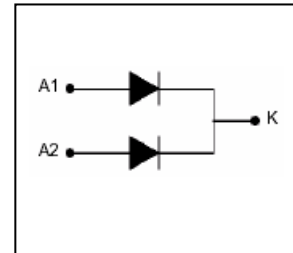
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheelings ,and Polarity Protection Applications

Package



Maximum Ratings

- T_{stg} — Storage Temperature -65~150°C
- T_j — Operating Temperature -65~150°C
- V_{RRM} — Peak Repetitive Reverse Voltage 60V
- V_{RWM} — Working Peak Reverse Voltage 60V
- V_R — DC Blocking Voltage 60V
- $V_{R(RMS)}$ — RMS Reverse Voltage 42V
- $I_{F(AV)}$ — Average Rectified Output Current @ $T_c=95^\circ C$ Double Dies 20A
 ◆ (Note 1) Single Die 10A
- I_{FSM} — Non-Repetitive Peak Forward Surge Current (Single Die, 60Hz) 200A

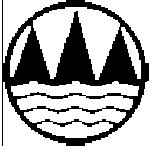


Electrical Characteristic @ $T_a=25^\circ C$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

| Characteristic | Symbol | Min | Max | Unit | Condition |
|--|------------|-----|-----------|--------------|---|
| Forward Voltage Drop | V_{FM} | | 0.75 | V | $I_F=10A, T_C=25^\circ C$ |
| Peak Reverse Current at Rated DC Blocking Voltage | I_{RM} | | 1.0 50 | mA | $V_R = V_{RRM} \quad T_C=25^\circ C$ $T_C=100^\circ C$ |
| Typical Junction Capacitance (Note 2) | C_j | | 1100 | pF | |
| Typical Thermal Resistance Junction to Case (Note 1) | R_{th-j} | | 2.8 | $^\circ C/W$ | |

Notes: 1、 Thermal resistance junction to case mounted on heatsink.
 2、 Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.



PERFORMANCE CURVES

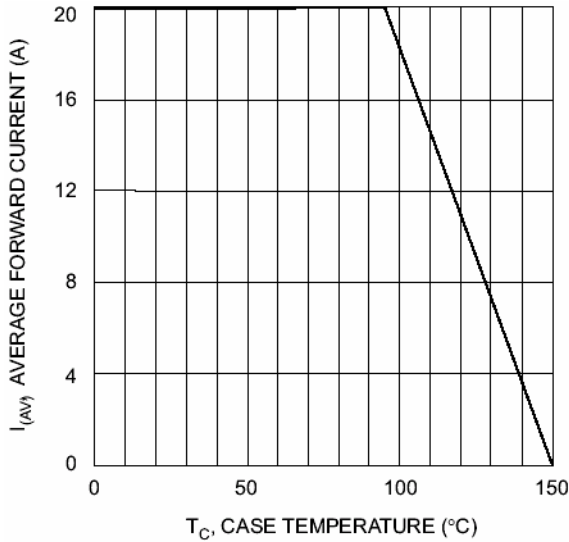


Fig. 1 Forward Current Derating Curve

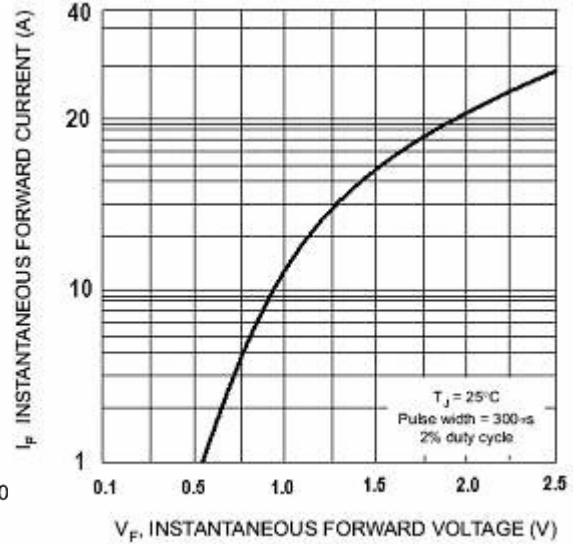


Fig. 2 Typical Forward Voltage

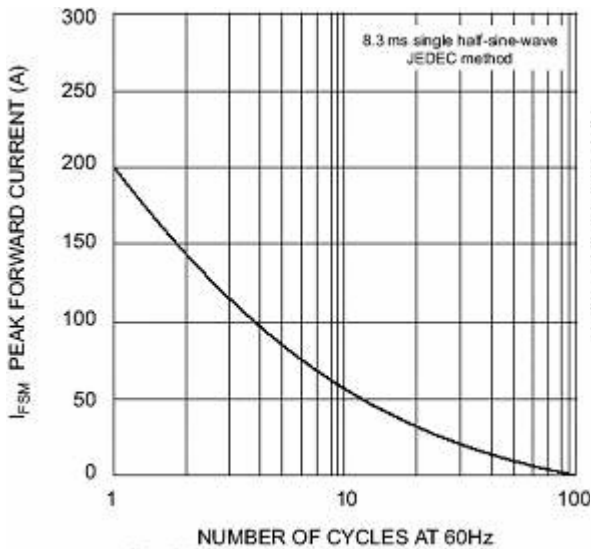


Fig. 3 Maximum Non-Repetitive Surge Current

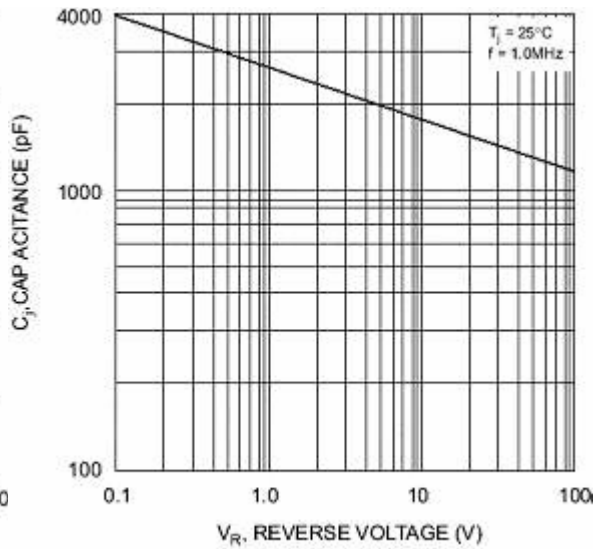


Fig. 4 Typical Junction Capacitance

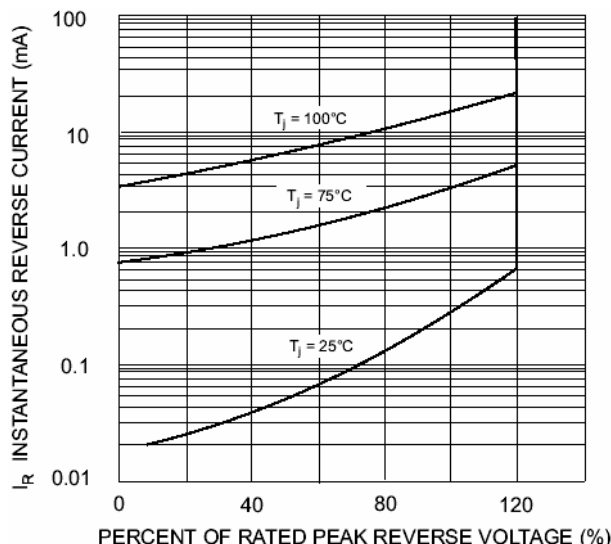


Fig. 5 Typical Reverse Characteristics