

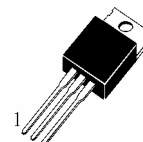
10A SCHOTTKY BARREIER RECTIFIER

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

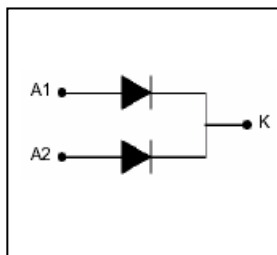
TO-220



1—Pin A1
2—Pin K
3—Pin A2

Maximum Ratings

- T_{stg} —Storage Temperature..... $-65\sim150^{\circ}\text{C}$
- T_j —Operating Temperature..... $-65\sim150^{\circ}\text{C}$
- V_{RRM} —Peak Repetitive Reverse Voltage..... 40V
- V_{RWM} — Working Peak Reverse Voltage.....40V
- V_R —DC Blocking Voltage..... 40V
- $V_{R(RMS)}$ —RMS Reverse Voltage..... 28V
- $I_{F(AV)}$ —Average Rectified Output Current@ $T_c=95^{\circ}\text{C}$Double Dies 10A
◆ (Note 1)Single Die 5A
- I_{FSM} —Non-Repetitive Peak Forward Surge Current (Single Die, 60Hz)150A



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

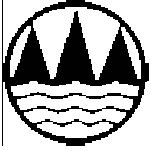
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	Min	Max	Unit	Condition
Forward Voltage Drop	V_{FM}		0.55	V	$I_F=5A, T_C=25^{\circ}\text{C}$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		0.5 50	mA	$V_R = V_{RRM} \quad T_C=25^{\circ}\text{C}$ $T_C=100^{\circ}\text{C}$
Typical Junction Capacitance(Note 2)	C_j		700	pF	
Typical Thermal Resistance Junction to Case(Note 1)	R_{th-j}		3.5	$^{\circ}\text{C/W}$	

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

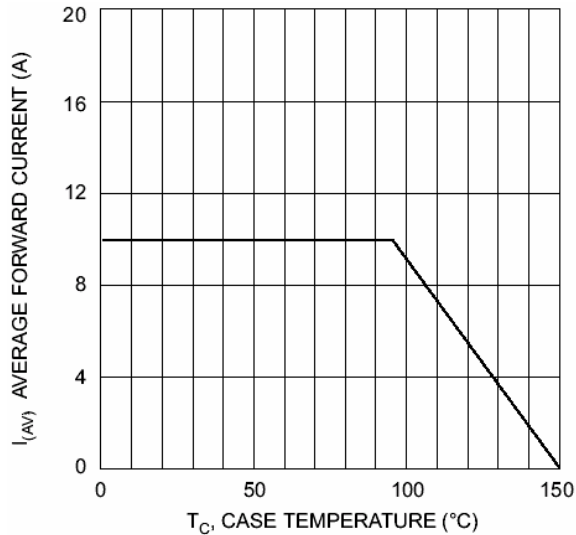


Fig. 1 Forward Current Derating Curve

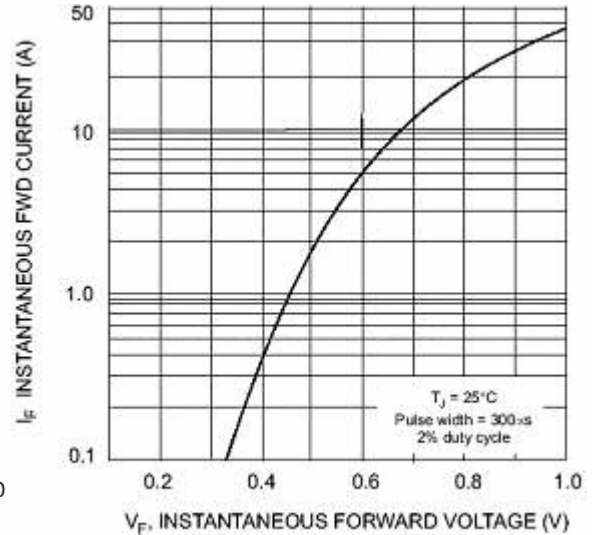


Fig. 2 Typical Forward Characteristics

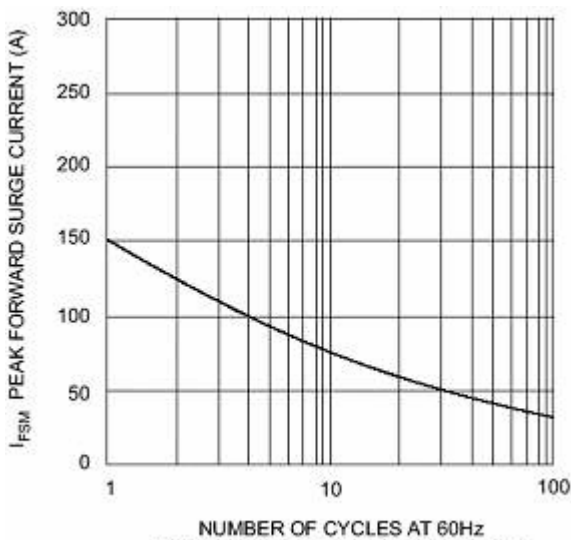


Fig. 3 Max Non-Repetitive Surge Current

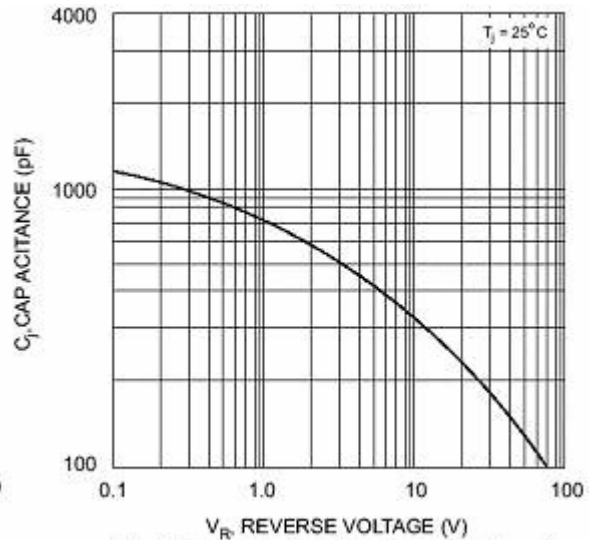


Fig. 4 Typical Junction Capacitance per Element

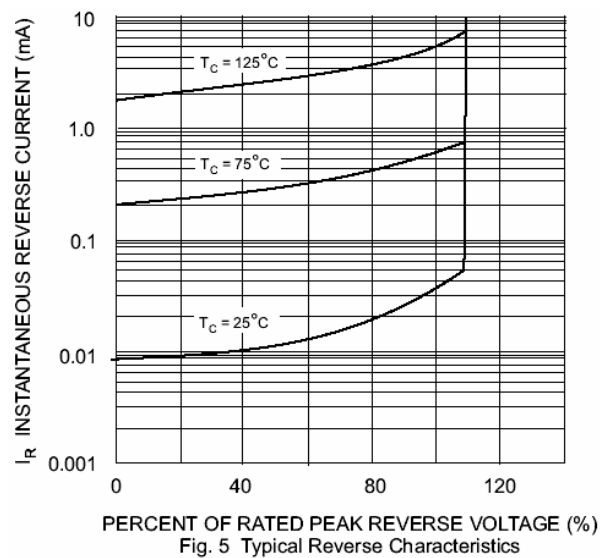


Fig. 5 Typical Reverse Characteristics