

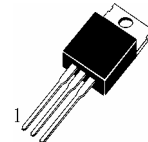
20A SCHOTTKY BARREIER RECTIFIER

Features

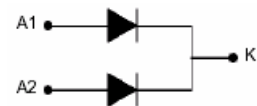
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheelings
,and Polarity Protection Applications

Package

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 Recified Output Current@ $T_c=95^{\circ}\text{C}$Double Dies 20A
◆ (Note 1)Single Die 10A
- I_{FSM} —Non-Repetitive Peak Forward Surge Current (Single Die, 60Hz)200A

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

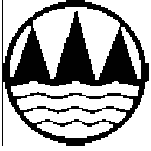
Single phase,half wave,60Hz,resistive or inductive load.

For capacitive load,derate current by 20%.

Characteristic	Symbol	Min	Max	Unit	Condition
Forward Voltage Drop	V_{FM}		0.55	V	$I_F=10A, T_C=25^{\circ}\text{C}$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		1.0 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		1100	pF	
Typical Thermal Resistance Junction to Case(Note 1)	R_{th-j}		2.8	$^{\circ}\text{C}/\text{W}$	

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

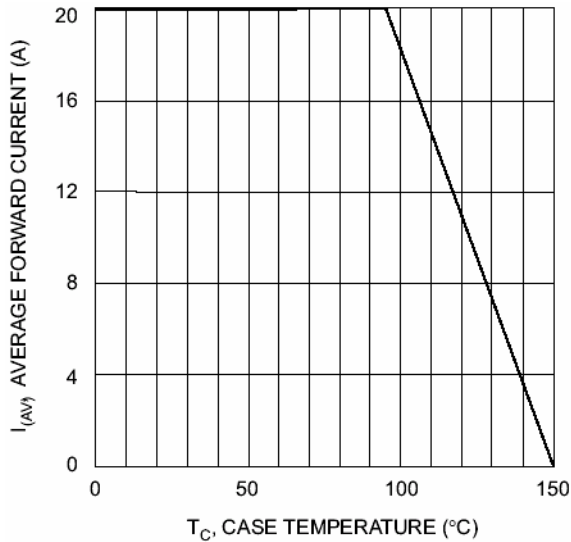


Fig. 1 Forward Current Derating Curve

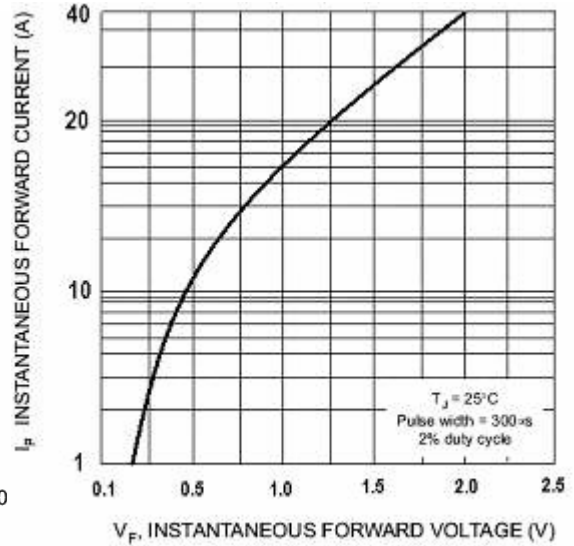


Fig. 2 Typical Forward Voltage

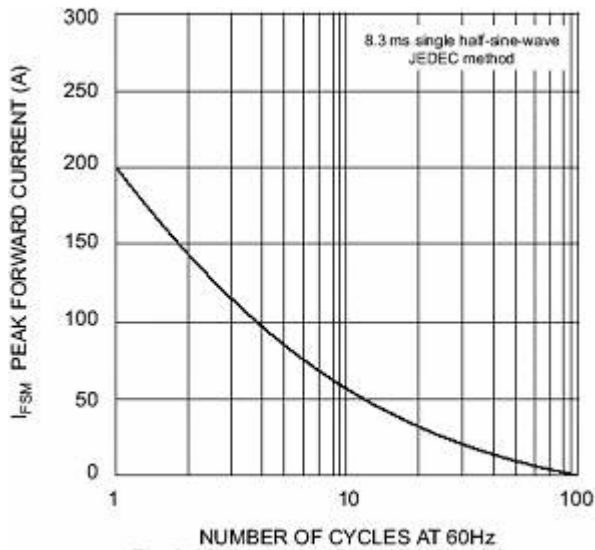


Fig. 3 Maximum Non-Repetitive Surge Current

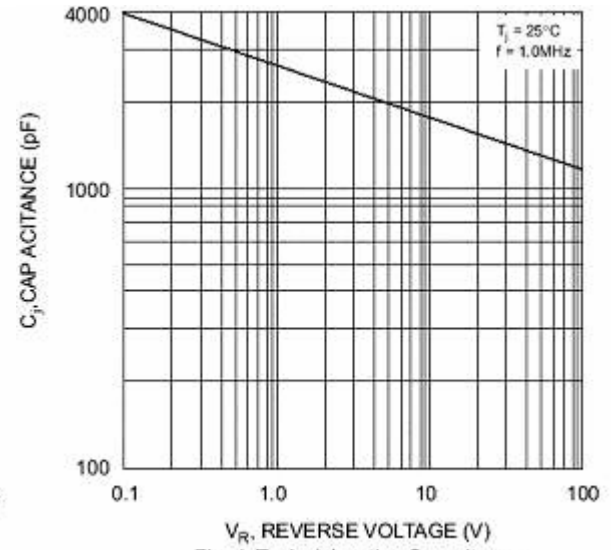


Fig. 4 Typical Junction Capacitance

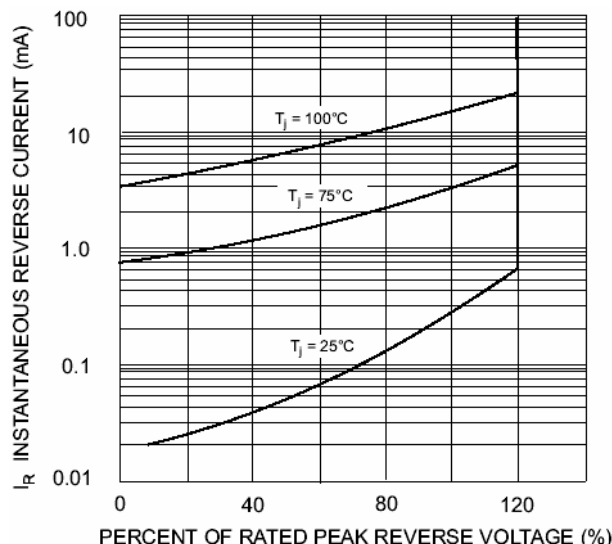


Fig. 5 Typical Reverse Characteristics