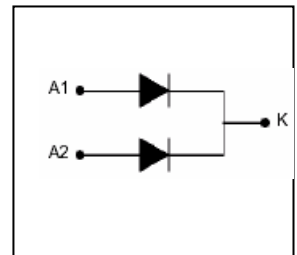
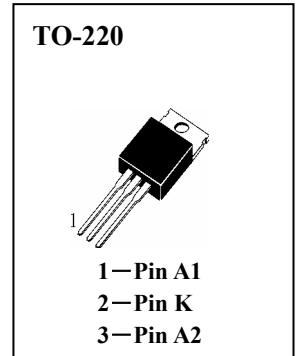


16A SCHOTTKY BARREIER RECTIFIER

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 Wheeling, 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.....45V
- V_{RWM} — Working Peak Reverse Voltage..... 45V
- V_R — DC Blocking Voltage45V
- $V_{R(RMS)}$ —RMS Reverse Voltage..... 31.5V
- $I_{F(AV)}$ —Maximum Average Forward Rectified Current@ $T_c=95^\circ C$ Double Dies 16A
 - ◆ (Note 1) Single Die 8A
- I_{FSM} —Non-Repetitive Peak Forward Surge Current (Single die, 60Hz)150A

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

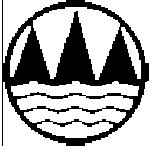
Single phase,half wave,60Hz,resistive or inductive load.

For capacitive load,derate current by 20%.

Characteristic	Symbol	Min	Max	Unit	Conditions
Forward Voltage Drop	V_{FM}		0.55	V	$I_F=8A, T_C=25^\circ C$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		0.5 50	mA	$V_R=V_{RRM}, T_C=25^\circ C$ $T_C=100^\circ C$
Typical Junction Capacitance(Note 2)	C_j		700	pF	
Typical Thermal Resistance Junction to Case(Note 1)	R_{th-j}		3.5	°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

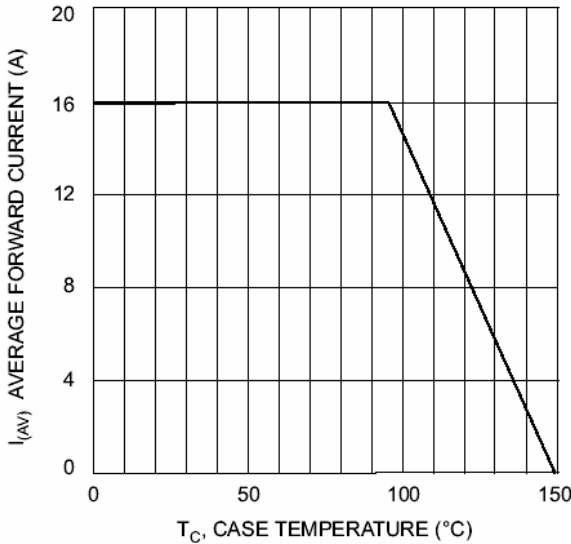


Fig. 1 Forward Current Derating Curve

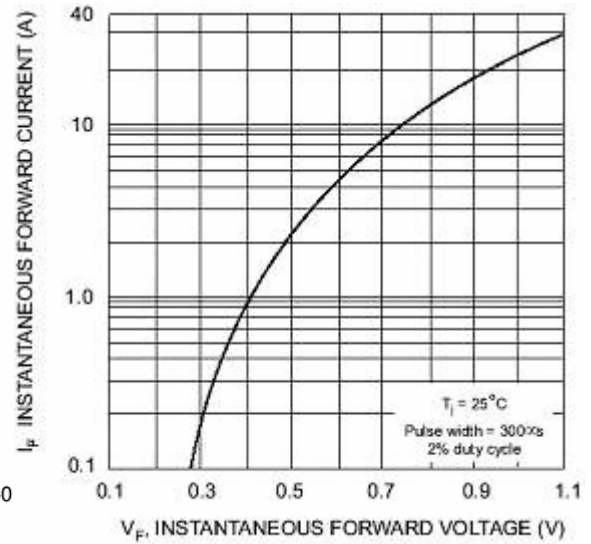


Fig. 2 Typical Forward Voltage

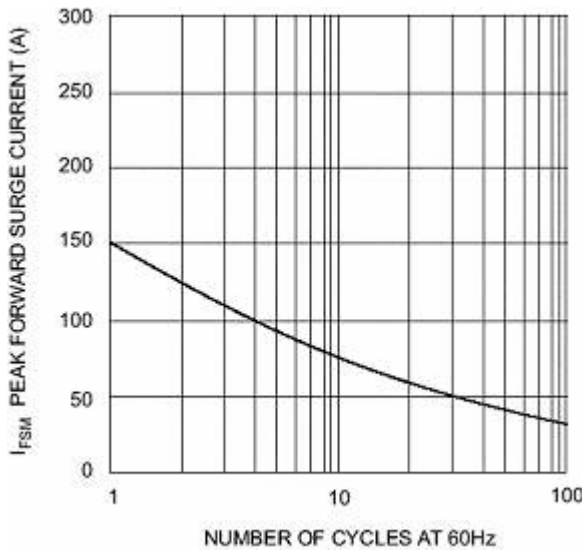


Fig. 3 Max Non-Repetitive Surge Current

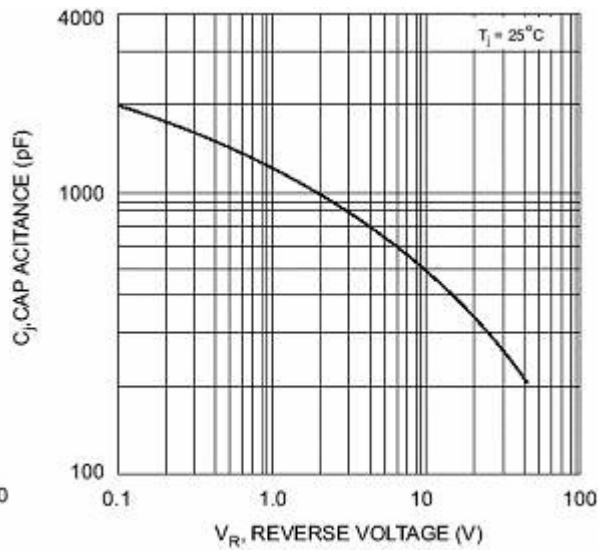


Fig. 4 Typical Junction Capacitance

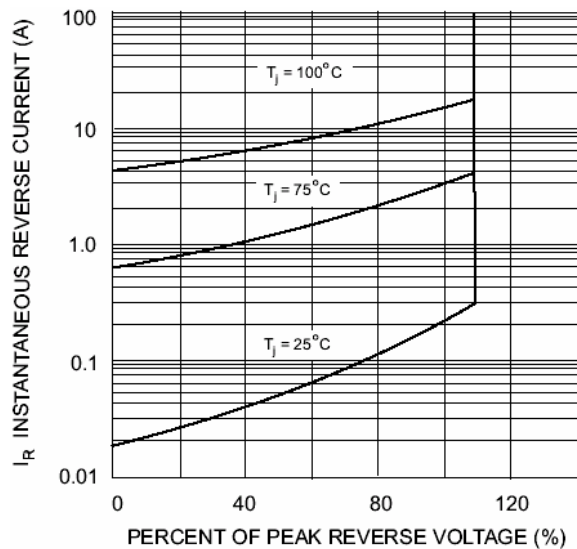


Fig. 5 Typical Reverse Characteristics