

16A SCHOTTKY BARREIER RECTIFIER

Features

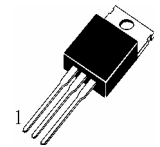
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheeling, and Polarity Protection Applications

Maximum Ratings

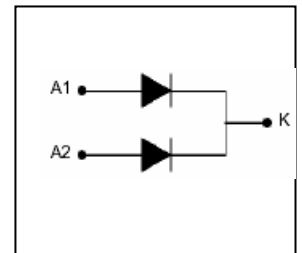
- T_{stg} ——Storage Temperature.....-65~150°C
- T_j ——Operating Temperature..... -65~150°C
- V_{RRM} ——Peak Repetitive Reverse Voltage.....45V
- V_{RWM} —— Working Peak Reverse Voltage..... 45V
- V_R —— DC Blocking Voltage45V
- $V_{R(RMS)}$ ——RMS Reverse Voltage..... 31.5V
- $I_{F(AV)}$ ——Maximum Average 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

Package

TO-220



1—Pin A1
2—Pin K
3—Pin A2



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

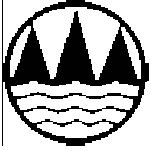
Single phase,half wave,60Hz,resistive or inductive load.

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	$^{\circ}C/W$	

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

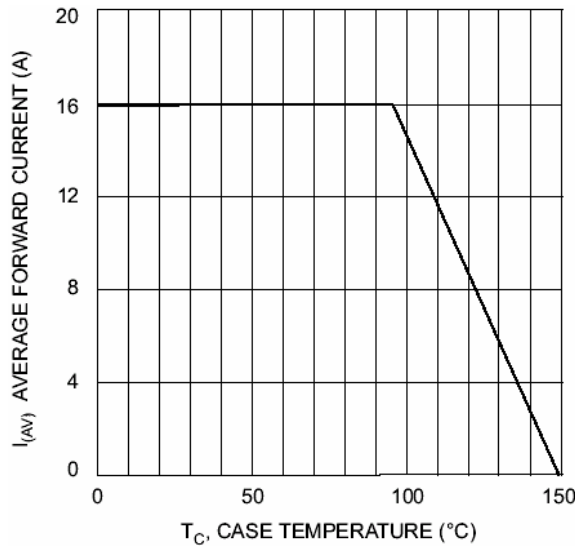


Fig. 1 Forward Current Derating Curve

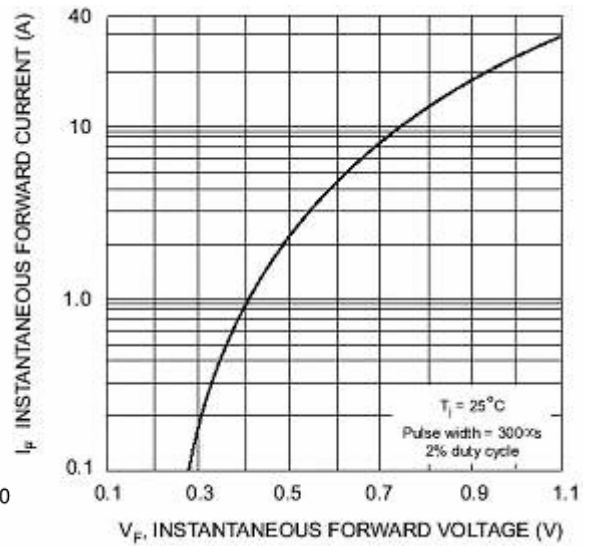


Fig. 2 Typical Forward Voltage

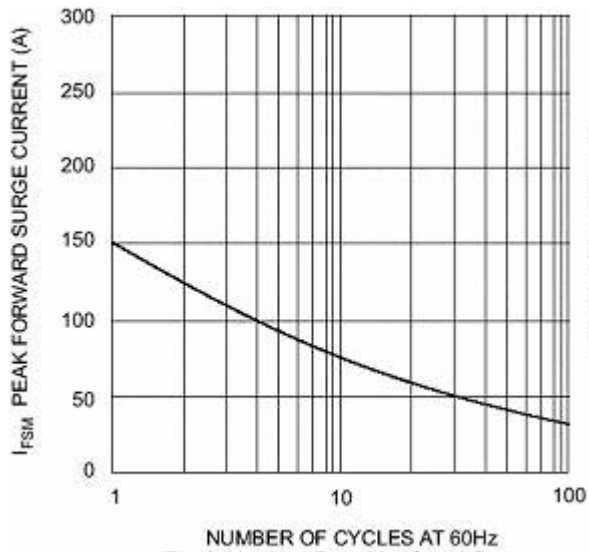


Fig. 3 Max Non-Repetitive Surge Current

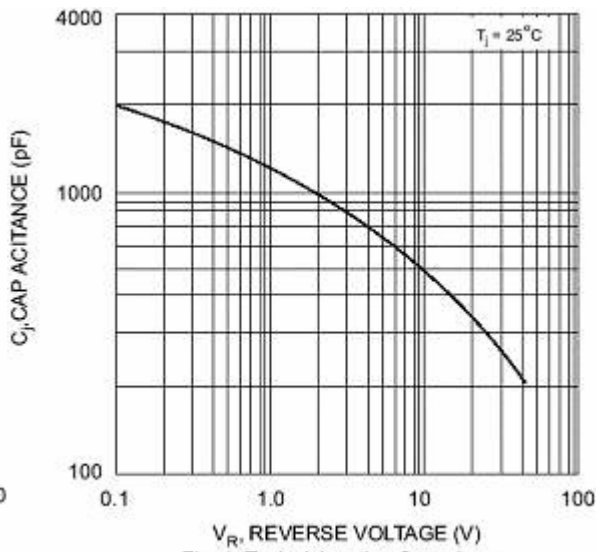


Fig. 4 Typical Junction Capacitance

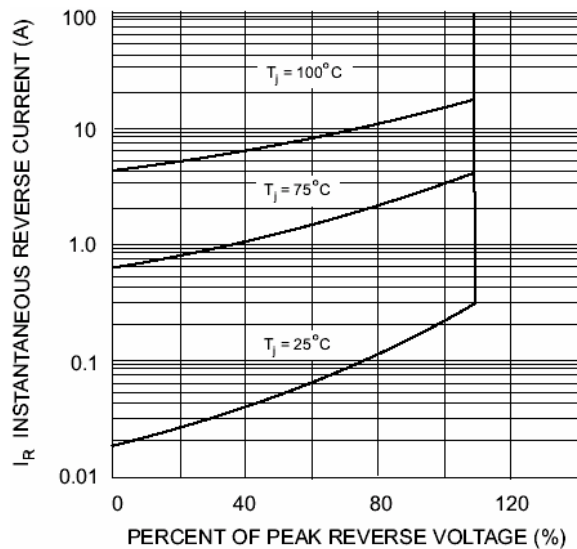


Fig. 5 Typical Reverse Characteristics