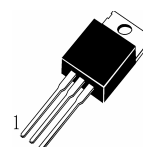


**30A SCHOTTKY BARREIER RECTIFIER****Features**

- 30 Amps Total (15 Amps Per Diode Leg)
- 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

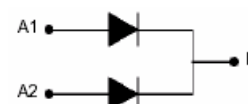
TO-220



1— Pin A1
2— Pin K
3— Pin A2

Maximum Ratings

- T_{stg} —Storage Temperature..... -55~150℃
- T_j —Operating Temperature..... -55~150℃
- 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@ $T_c=95^{\circ}C$Double Dies 30A
(Note 1)Single Die 15A
- I_{FSM} —Non-Repetitive Peak Forward Surge Current(60Hz).....200A

**Electrical Characteristics @ $T_a=25^{\circ}C$ 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 (Note 1)	V_{FM}		0.7 0.84 0.72	V	$I_F=15A, T_C=25^{\circ}C$ $I_F=30A, T_C=25^{\circ}C$ $I_F=30A, T_C=125^{\circ}C$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		0.2 60	mA	$V_R = V_{RRM} \quad T_C=25^{\circ}C$ $T_C=125^{\circ}C$
Typical Junction Capacitance(Note 2)	C_j		1000	pF	
Typical Thermal Resistance Junction to Case(Note 3)	R_{th-j}		2.0	℃/W	

Notes: 1. Pulse Test: Pulse Width = 300 ms, Duty Cycle 2.0%.

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

3. Thermal resistance junction to case mounted on heatsink..



PERFORMANCE CURVES

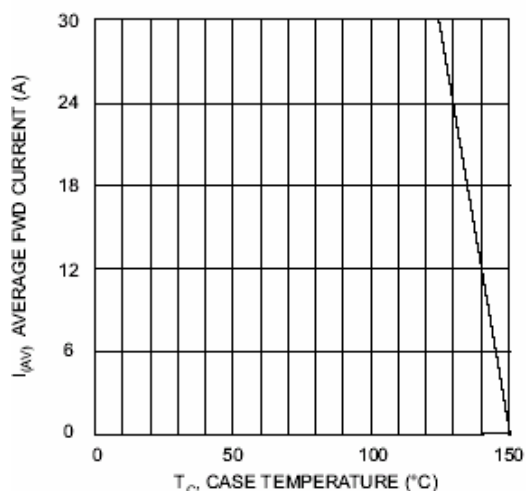


Fig. 1 Fwd Current Derating Curve

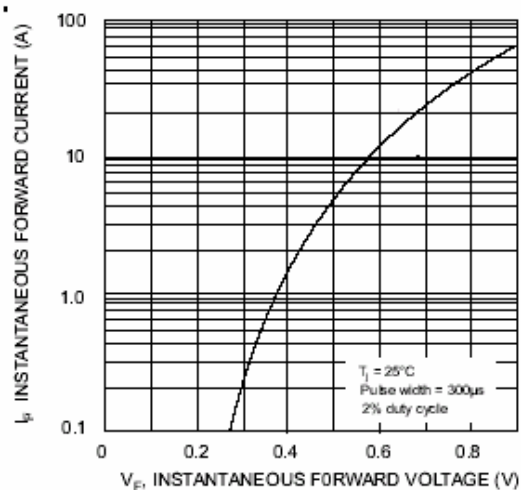


Fig. 2 Typical Forward Characteristics

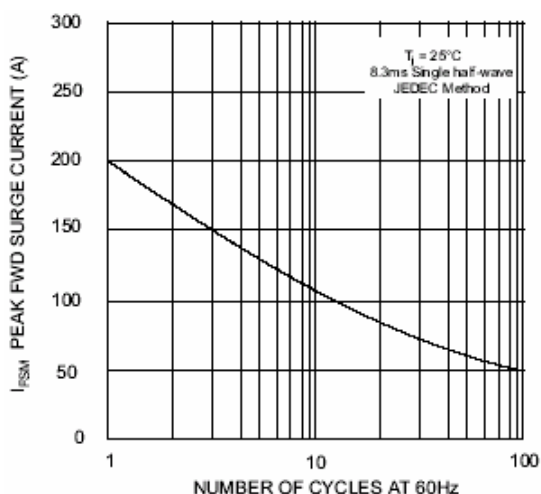


Fig. 3 Max Non-Repetitive Surge Current

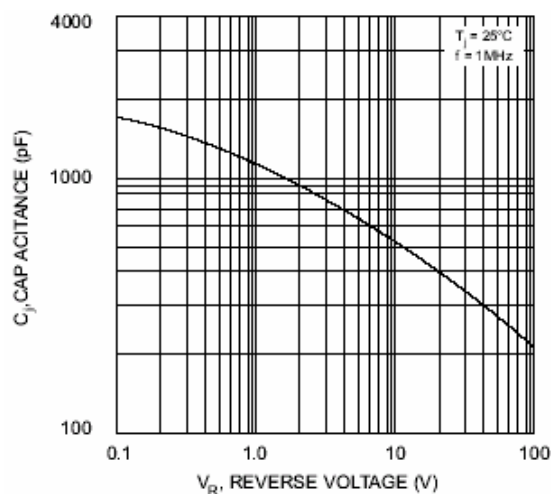


Fig. 4 Typical Junction Capacitance

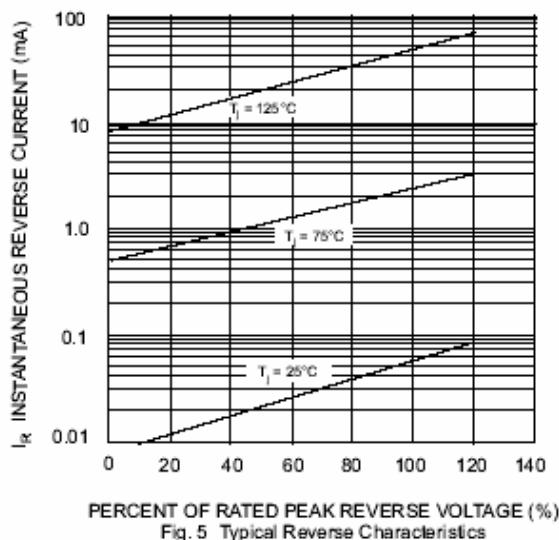


Fig. 5 Typical Reverse Characteristics



Package Dimensions

