

**10A HIGH VOLTAGE 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℃
- T_j ——Operating Temperature -65~150℃
- V_{RRM} ——Peak Repetitive Reverse Voltage.....200V
- V_{RWM} —— Working Peak Reverse Voltage..... 200V
- V_R ——DC Blocking Voltage.....200V
- $V_{R(RMS)}$ ——RMS Reverse Voltage..... 140V
- $I_{F(AV)}$ ——Average Rectified Output Current($T_c=125^\circ C$)Double Dies 10A
◆ (Note 1)Single Die 5A
- I_{FSM} ——Non-Repetitive Peak Forward Surge Current (Single Die, 60Hz)120A

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%.

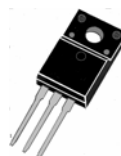
Characteristic	Symbol	Min	Max	Unit	Condition
Forward Voltage Drop	V_{FM}		0.92 0.75 1.1 0.9	V	$I_F=5A, T_C=25^\circ C$ $I_F=5A, T_C=125^\circ C$ $I_F=10A, T_C=25^\circ C$ $I_F=10A, T_C=125^\circ C$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		0.2 40	mA	$V_R = V_{RRM} \quad T_C=25^\circ C$ $T_C=125^\circ C$
Typical Junction Capacitance(Note 2)	C_j		300	pF	
Typical Thermal Resistance Junction to Case(Note 1)	R_{th-j}		4.0	°C/W	
Voltage Rate Of Change	dV/dt		10000	V/s	
Isolation Breakdown Voltage(heatsink to surface, $t=3s$)	V_{iso}		2000	V	

Notes:1、 Thermal resistance junction to case mounted on heatsink.

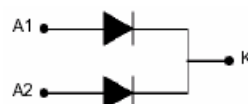
2、 Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

Package

TO-220F



1—Pin A1
2—Pin K
3—Pin A2





PERFORMANCE CURVES

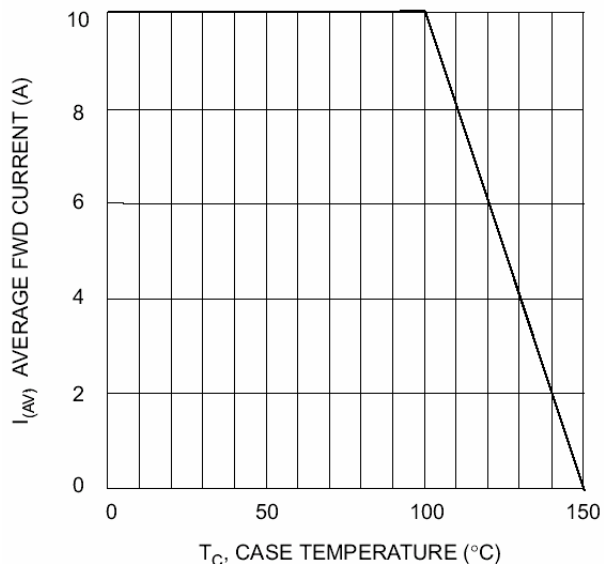


Fig. 1 Forward Current Derating Curve

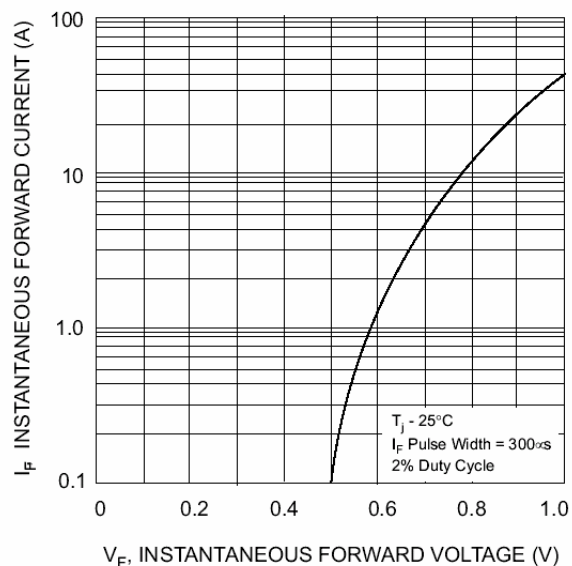


Fig. 2 Typical Forward Characteristics

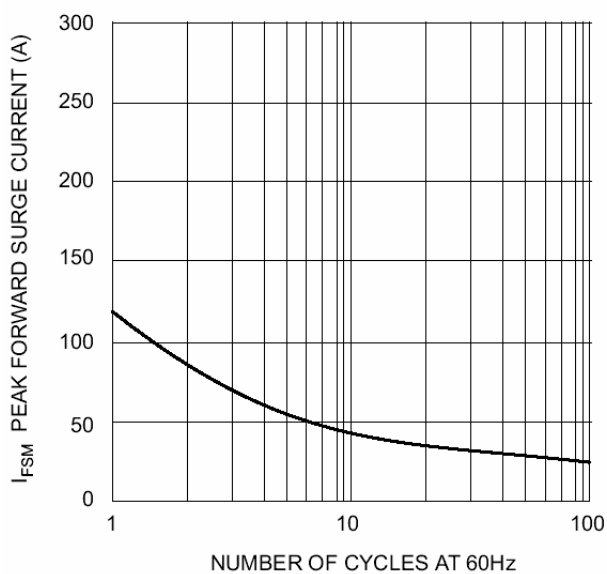


Fig. 3 Max Non-Repetitive Surge Current

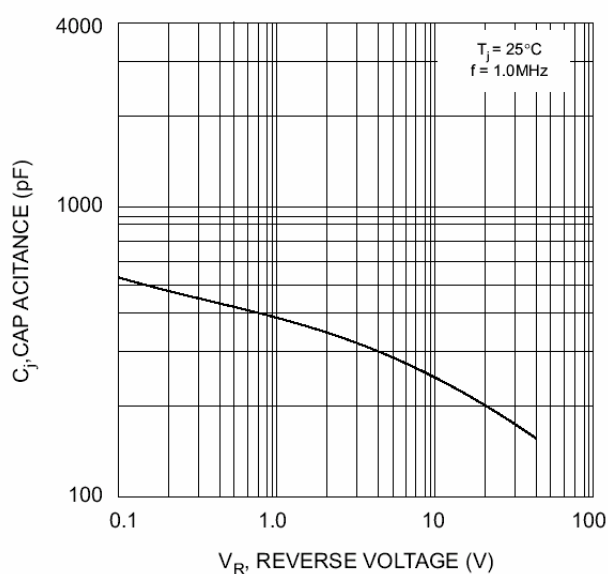


Fig. 4 Typical Junction Capacitance