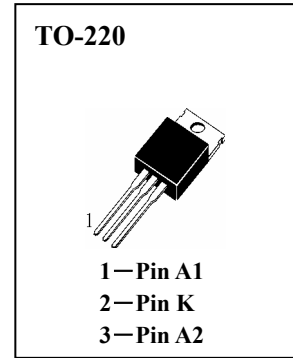


10A SCHOTTKY BARREIER RECTIFIER

Features

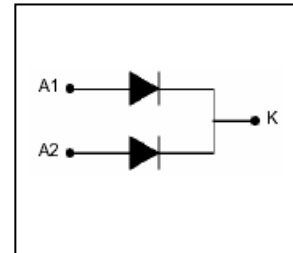
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheelings ,and Polarity Protection Applications

Package



Maximum Ratings

- $T_{stg}$  — Storage Temperature ..... -65~150°C
- $T_j$  — Operating Temperature ..... -65~150°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 Rectified Output Current @  $T_c=95^\circ C$  ..... Double Dies 10A  
     ◆ (Note 1) ..... Single Die 5A
- $I_{FSM}$  — Non-Repetitive Peak Forward Surge Current (Single Die, 60Hz) ..... 150A

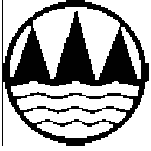


Electrical Characteristic @  $T_a=25^\circ C$  unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

Characteristic	Symbol	Min	Max	Unit	Condition
Forward Voltage Drop	$V_{FM}$		0.55	V	$I_F=5A, T_C=25^\circ C$
Peak Reverse Current at Rated DC Blocking Voltage	$I_{RM}$		0.5 50	mA	$V_R = V_{RRM} \quad T_C=25^\circ C$ $T_C=100^\circ C$
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

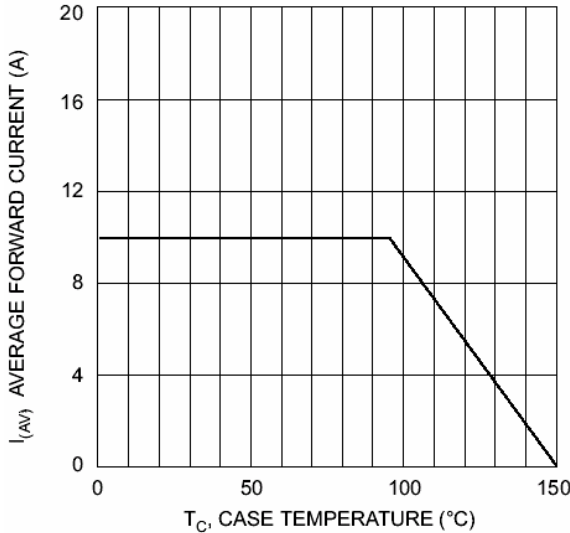


Fig. 1 Forward Current Derating Curve

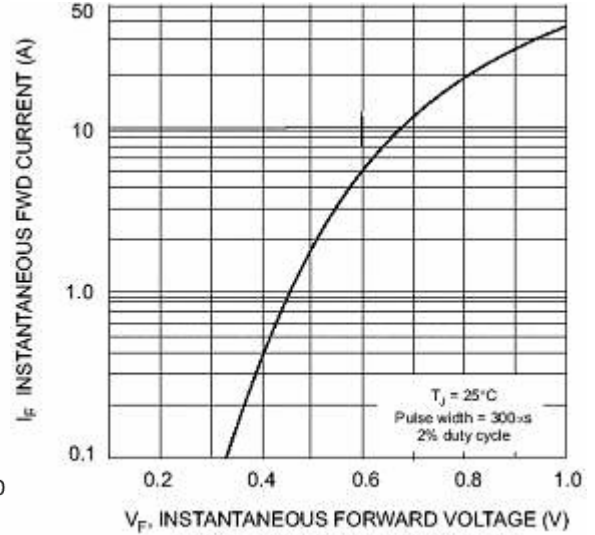


Fig. 2 Typical Forward Characteristics

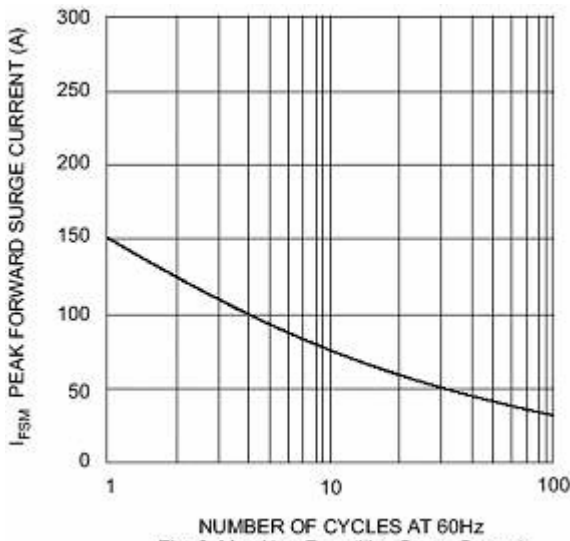


Fig. 3 Max Non-Repetitive Surge Current

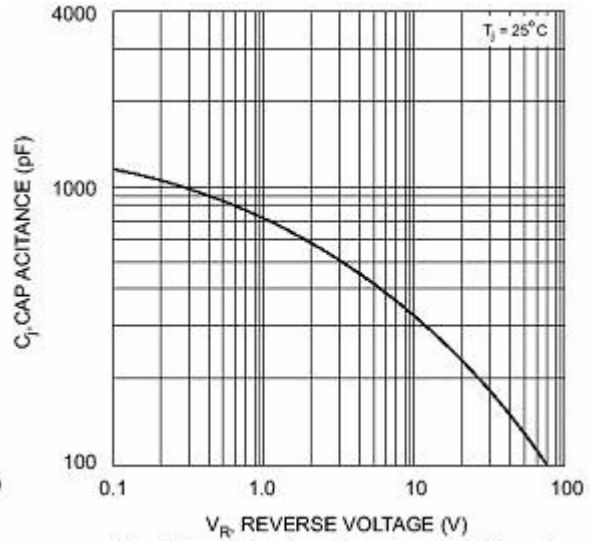


Fig. 4 Typical Junction Capacitance per Element

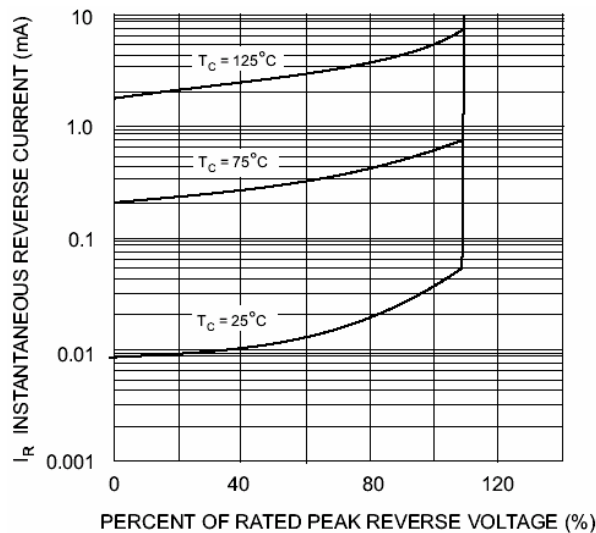


Fig. 5 Typical Reverse Characteristics