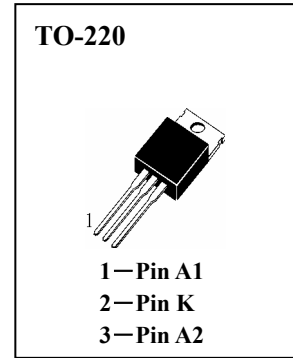


20A SCHOTTKY BARREIER RECTIFIER

Features

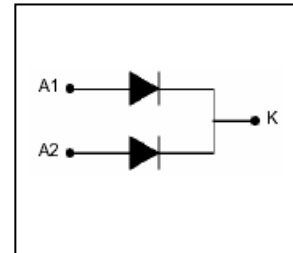
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheelings ,and Polarity Protection Applications

Package



Maximum Ratings

- $T_{stg}$ —Storage Temperature.....-65~150°C
- $T_j$ —Operating Temperature.....-65~150°C
- $V_{RRM}$ —Peak Repetitive Reverse Voltage.....45V
- $V_{RWM}$  — Working Peak Reverse Voltage..... 45V
- $V_R$ —DC Blocking Voltage.....45V
- $V_{R(RMS)}$  —RMS Reverse Voltage.....31.5V
- $I_{F(AV)}$  —Average Recified Output Current@ $T_c=95^\circ C$ .....Double Dies 20A  
     ◆ (Note 1) .....Single Die 10A
- $I_{FSM}$ —Non-Repetitive Peak Forward Surge Current(Single Wafer, 60Hz).....200A

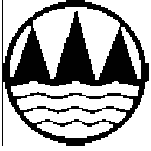


Electrical Characteristic@ $T_a=25^\circ C$  unless otherwise specified

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	$I_F=10A, T_C=25^\circ C$
Peak Reverse Current at Rated DC Blocking Voltage	$I_{RM}$		1.0 50	mA	$V_R=V_{RRM} T_C=25^\circ C$ $T_C=100^\circ C$
Typical Junction Capacitance(Note 2)	$C_j$		1100	pF	
Typical Thermal Resistance Junction to Case(Note 1)	$R_{th-j}$		2.8	$^\circ C/W$	

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

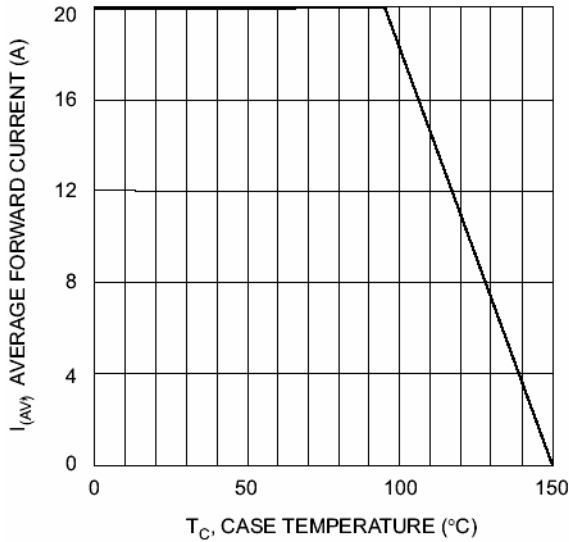


Fig. 1 Forward Current Derating Curve

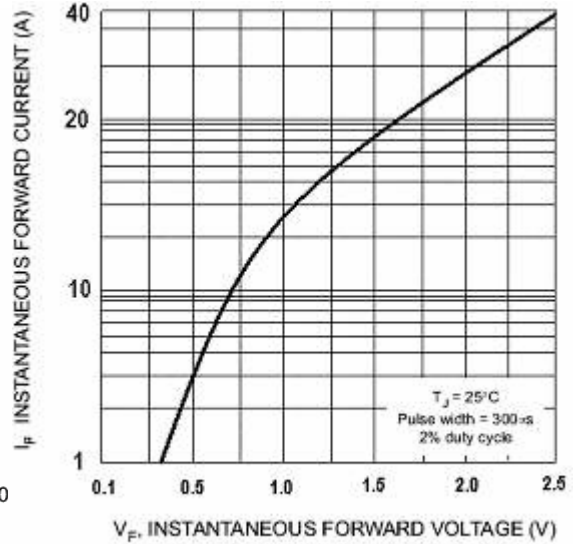


Fig. 2 Typical Forward Voltage

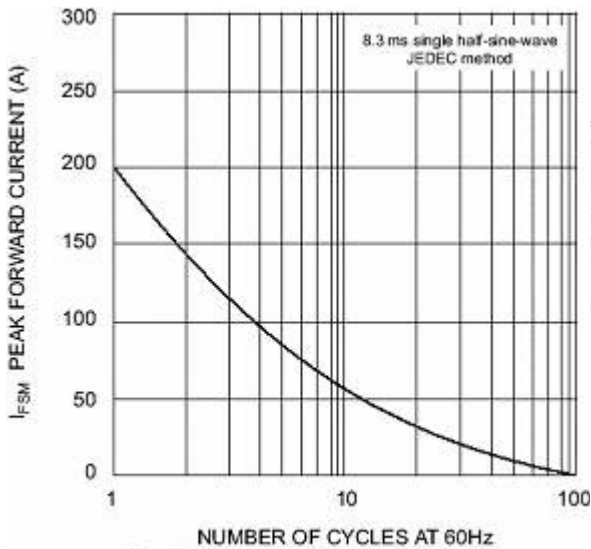


Fig. 3 Maximum Non-Repetitive Surge Current

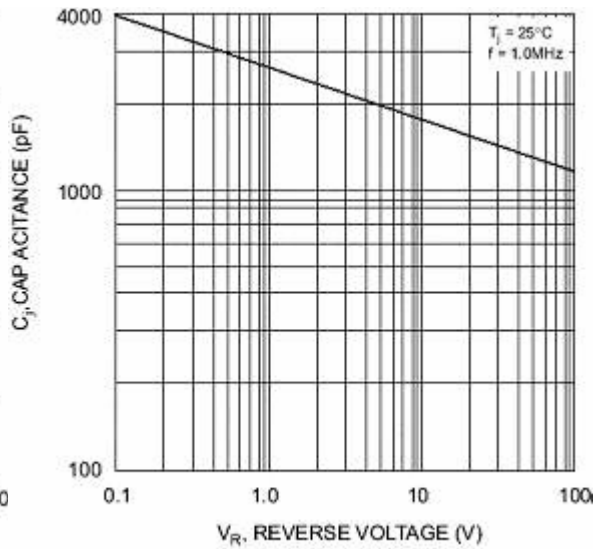


Fig. 4 Typical Junction Capacitance

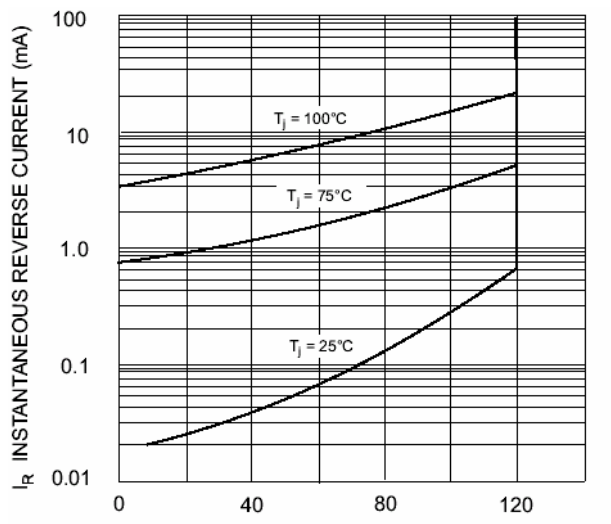


Fig. 5 Typical Reverse Characteristics