

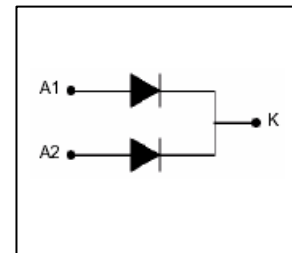
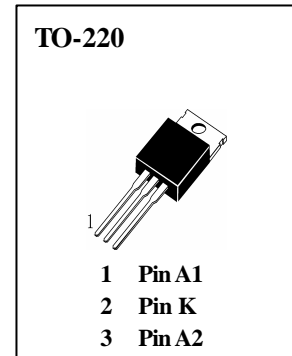


10A SCHOTTKY BARREIER RECTIFIER

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..... -55~150
- T_j —Operating Temperature..... 125
- V_{RRM} —Peak Repetitive Reverse Voltage..... 60V
- V_{RWM} — Working Peak Reverse Voltage.....60V
- V_R —DC Blocking Voltage..... 60V
- $V_{R(RMS)}$ —RMS Reverse Voltage..... 42V
- $I_{F(AV)}$ —Average Rectified Output Current@ $T_c=95$ Double Dies 10A
 - ◆ (Note 1)Single Die 5A
- I_{FSM} —Non-Repetitive Peak Forward Surge Current (Single Die , 60Hz)125A

Electrical Characteristic@ $T_a=25$ 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	V	$I_F=5A, T_C=25$
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		0.5 50	mA	$V_R = V_{RRM} \quad T_C=25$ $T_C=100$
Typical Junction Capacitance(Note 3)	C_j		250	pF	
Typical Thermal Resistance Junction to Case(Note 2)	R_{th-j}		3.0	/W	

Notes: 1、 300 μ S Pulse Width, 2% Duty Cycle.

2、 Thermal resistance junction to case mounted on heatsink.

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



PERFORMANCE CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

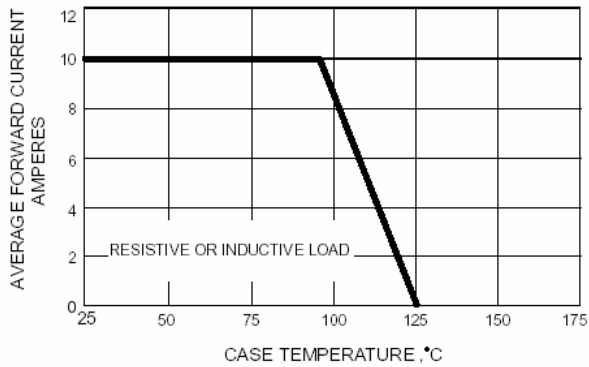


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

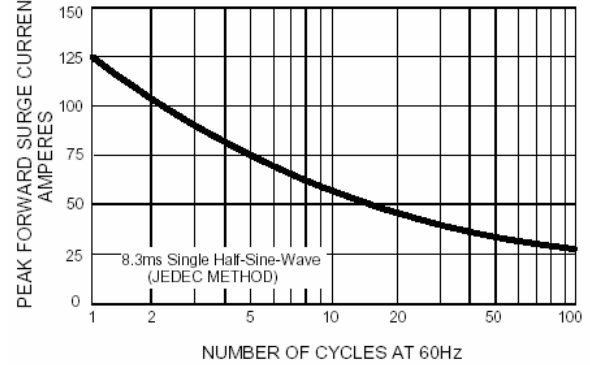


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

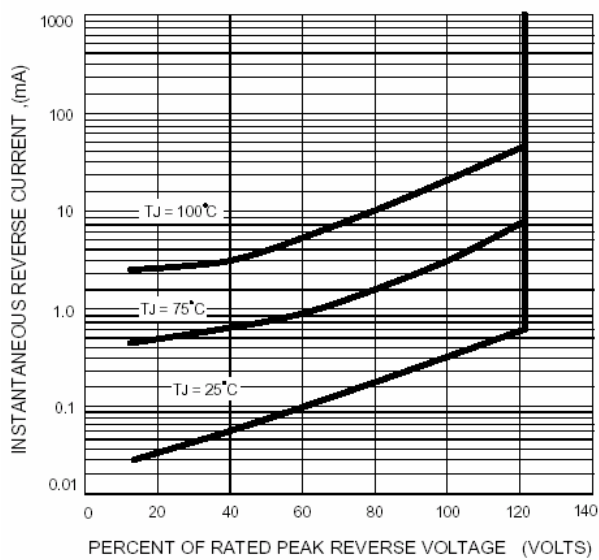


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

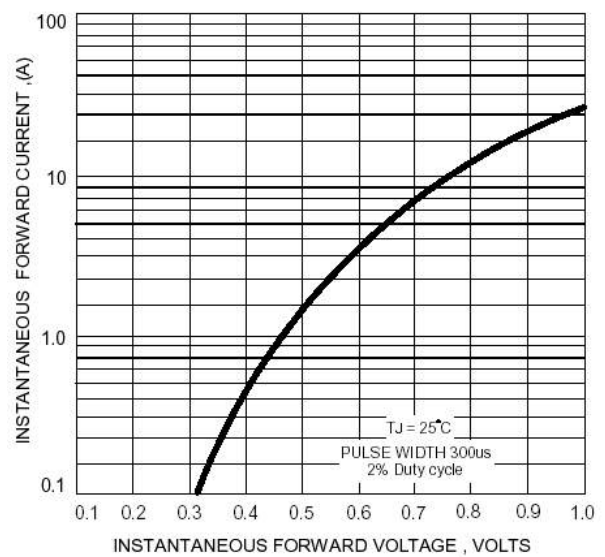


FIG.5 - TYPICAL JUNCTION CAPACITANCE

