Shantou Huashan Electronic Devices Co.,Ltd.

HJP2060CT

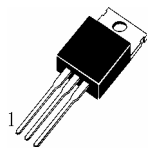
20A SCHOTTKY BARREIER RECTIFIER

Features

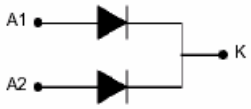
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheelings ,and Polarity Protection Applications

Package

TO-220



1—Pin A1
2—Pin K
3—Pin A2



Maximum Ratings

- T_{stg}——Storage Temperature…… −65~150℃
- T_j——Operating Temperature……−65~150℃
- 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 Recified Output Current@T_c=95℃……Double Dies 20A
  - (Note 1) ……Single Die 10A
- I_{FSM}——Non-Repetitive Peak Forward Surge Current（Single Die，60Hz）……200A

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	V_{FM}		0.75	V	I_F=10A,T_C=25℃
Peak Reverse Current at Rated DC Blocking Voltage	I_{RM}		1.0 50	mA	$V_R = V_{RRM}$ T_C=25℃ T_C=100℃
Typical Junction Capacitance(Note 2)	Cj		1100	pF	
Typical Thermal Resistance Junction to Case(Note 1)	R_{th-j}		2.8	℃/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

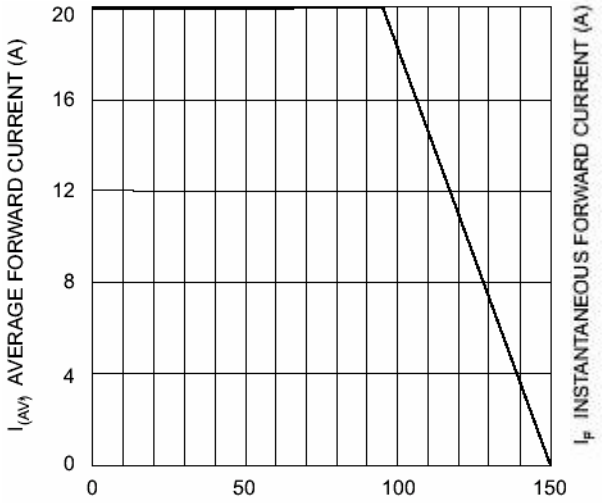


Fig. 1 Forward Current Derating Curve

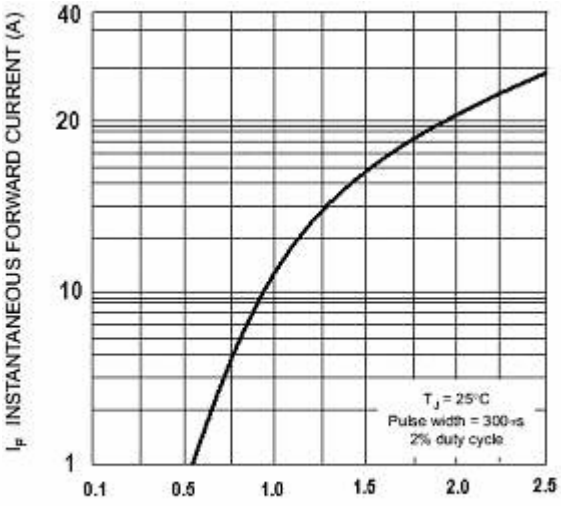


Fig. 2 Typical Forward Voltage

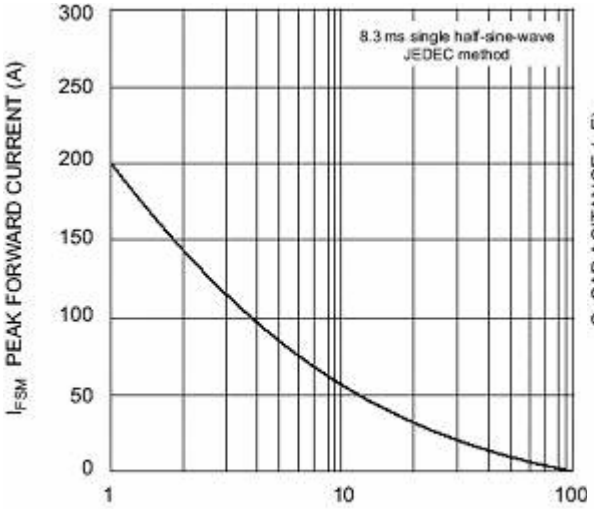


Fig. 3 Maximum Non-Repetitive Surge Current

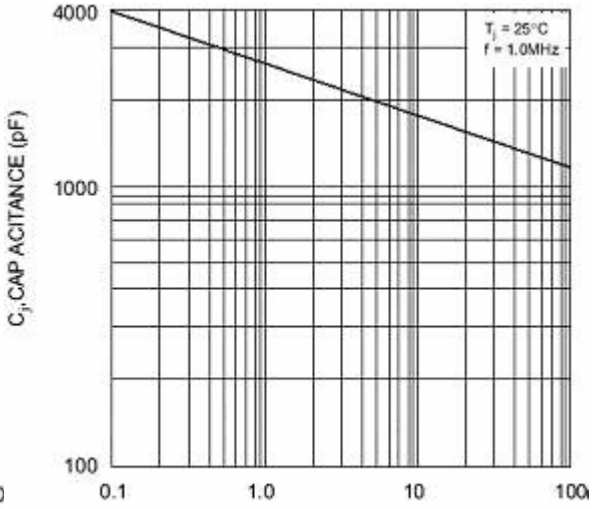


Fig. 4 Typical Junction Capacitance

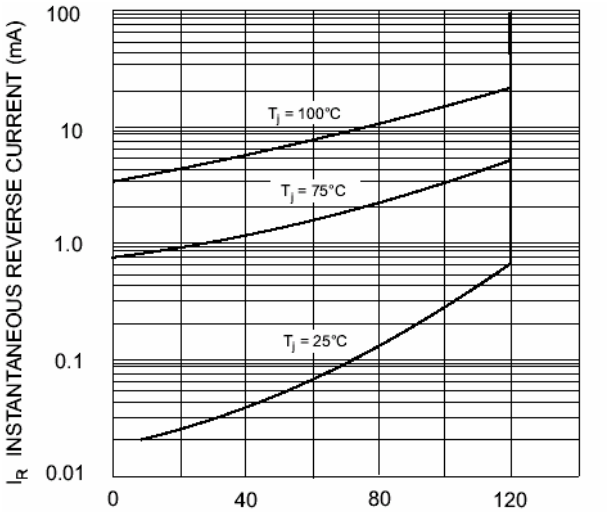


Fig. 5 Typical Reverse Characteristics