



Shantou Huashan Electronic Devices Co.,Ltd.

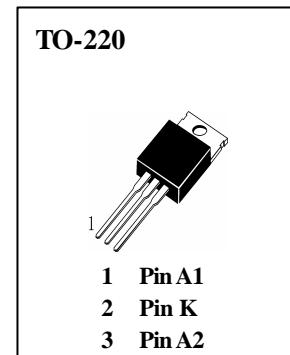
HKP3040CT

30A SCHOTTKY BARREIER RECTIFIER

Features

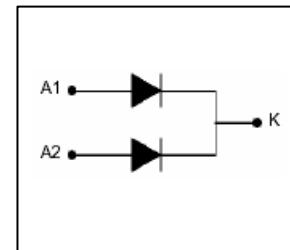
- **30 Amps Total (15 Amps Per Diode Leg)**
- **Guard Ring Die Construction for Transient Protection**
- **Low Power Loss,High Efficiency**
- **High Surge Capability**
- **High Current Capability and Low Forward Voltage Drop**
- **For Use in Low Voltage,High Frequency Inverters,Free Wheelings ,and Polarity Protection Applications**

Package



Maximum Ratings

- **T_{stg}—Storage Temperature..... -55~150**
- **T_j—Operating Temperature..... -55~150**
- **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** Double Dies 30A
(Note 1) Single Die 15A
- **I_{FSM}—Non-Repetitive Peak Forward Surge Current(60Hz)..... 200A**



Electrical Characteristics @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 0.84 0.72		V	I _F =15A,T _C =25 I _F =30A,T _C =25 I _F =30A,T _C =125
Peak Reverse Current at Rated DC Blocking Voltage	I _{RM}	0.2 60		mA	V _R = V _{RRM} T _C =25 T _C =125
Typical Junction Capacitance(Note 2)	C _j		1000	pF	
Typical Thermal Resistance Junction to Case(Note 3)	R _{th-j}		2.0	/W	

Notes: 1. Pulse Test: Pulse Width = 300 ms, Duty Cycle 2.0%.

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

3. Thermal resistance junction to case mounted on heatsink..



Shantou Huashan Electronic Devices Co.,Ltd.

HKP3040CT

PERFORMANCE CURVES

