

Power Schottky Rectifier

INCHANGE SEMICONDUCTOR

STPS20120CT

FEATURES

- Low Power Loss, high Efficiency
- High Surge Capability, High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

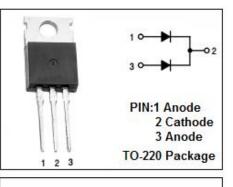
• For use in low voltage, high frequency inverters, free wheeling and polarity protection applications.

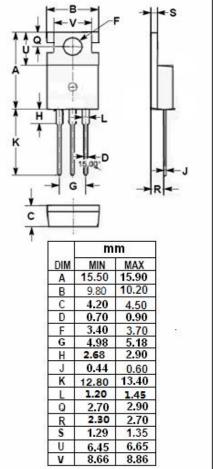
SYMBOL	PARAMETER	VALUE	UNIT			
Vrrm	Peak Repetitive Reverse Voltage	120	v			
IF(RMS)	RMS Forward current	30	A			
I _{F(AV)}	Average Forward Current per diode per device	10 20	A			
I _{FSM}	Nonrepetitive Peak Surge Current tp=10 ms sinusoidal	150	A			
TJ	Junction Temperature	175	°C			
T _{stg}	Storage Temperature Range	-65~175	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

THERMAL CHARACTERISTICS

SYMB OL	PARAMETER	MAX	UNI T
R _{th j-c}	Thermal Resistance, Junction to Case	1.8	°C/W





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SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
VF	Instantaneous Forward Voltage	I _F = 2.5A ; Tc= 25℃	0.7	- V	
		I _F = 2.5A ; Tc=125℃	0.58		
		I _F = 10A ; Tc= 25℃	0.92		
		I _F = 10A ; Tc=125℃	0.74		
		I _F = 20A ; Tc= 25℃	1.02		
			I _F = 20A ; Tc=125℃	0.86	
IR	Instantaneous Reverse Current		V _R = V _{RRM;} Tc= 25℃	0.01	– mA
			V _R = V _{RRM;} Тс= 125℃	5	

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

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