

Power Schottky Rectifier

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

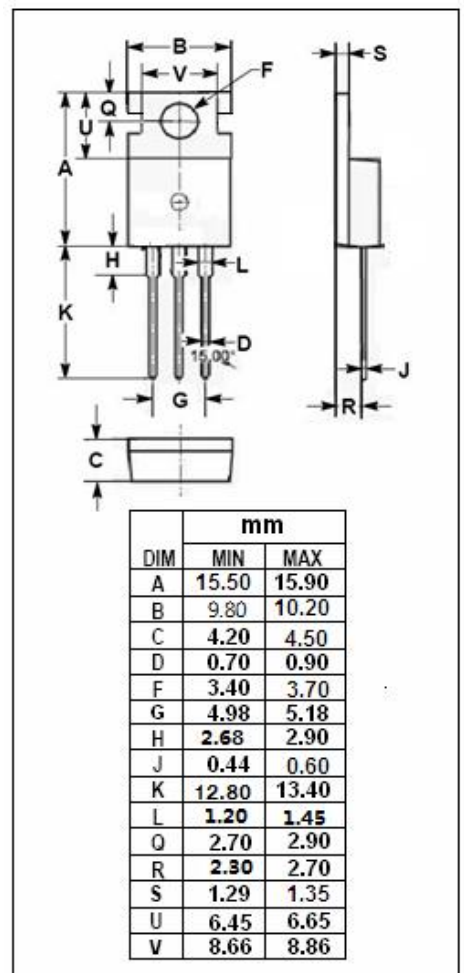
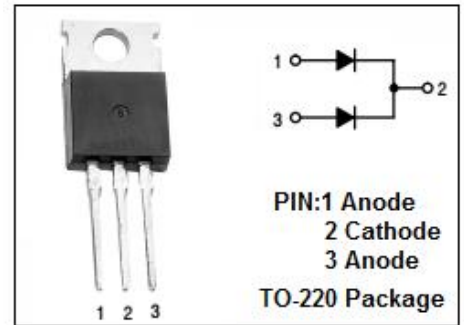
- For use in low voltage,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{RRM}	Peak Repetitive Reverse Voltage	120	V	
I _{F(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	
T _J	Junction Temperature	175	°C	
T _{stg}	Storage Temperature Range	-65~175	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.8	°C/W



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Instantaneous Forward Voltage	I _F = 2.5A ; T _c = 25°C	0.7	V
		I _F = 2.5A ; T _c =125°C	0.58	
		I _F = 10A ; T _c = 25°C	0.92	
		I _F = 10A ; T _c =125°C	0.74	
		I _F = 20A ; T _c = 25°C	1.02	
		I _F = 20A ; T _c =125°C	0.86	
I _R	Instantaneous Reverse Current	V _R = V _{RRM} ; T _c = 25°C	0.01	mA
		V _R = V _{RRM} ; T _c = 125°C	5	

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