

Schottky Barrier Rectifier

STPS20M100SG-TR

FEATURES

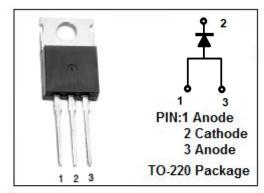
- Schottky Barrier Chip
- Low forward voltage drop meaning very small conduction losses
- · Reverse voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

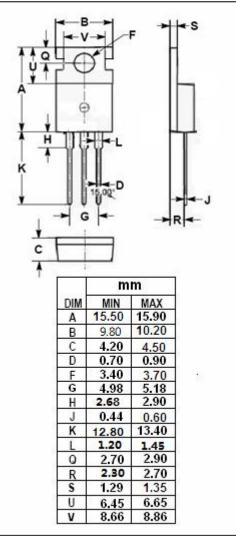
APPLICATIONS

- · Switching diode
- SMPS
- DC/DC converter

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current	20	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	350	А
P _D	Maximum power dissipation	105	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$







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THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _{F*}	Maximum Instantaneous Forward Voltage	I _F =20A ;Tj=25℃ I _F =20A ;Tj=125℃	900 800	mV
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; V _R = V _{RWM} ;Tj=125°C	0.04 40	mA

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