

Schottky Barrier Rectifier

SRF30100CT

FEATURES

- · Schottky Barrier Chip
- · Low Power Loss/High Efficiency
- · High current capability
- · low forward voltage drop
- · High surge capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

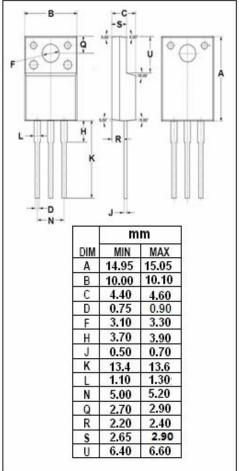
PIN:1 Anode 2 Cathode 3 Anode 1 2 3 TO-220F package

APPLICATIONS

• Designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications .



SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 95 °C	30	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	300	А
I _{RRM}	Peak Repetitive Reverse Surge Current	0.5	Α
TJ	Junction Temperature	-65~150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =15A ; T _C = 25 [°] C	0.85	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25°C Rated DC Voltage, T _C = 100°C	0.5 50	mA



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