

# **Schottky Barrier Rectifier**

## **SBR20U150CT**

#### **FEATURES**

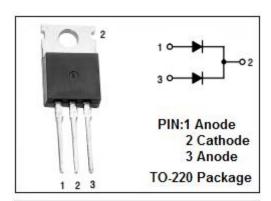
- · Low Forward Voltage
- Low Power Loss/High Efficiency
- Soft, Fast Switching Capability
- · High surge capability
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

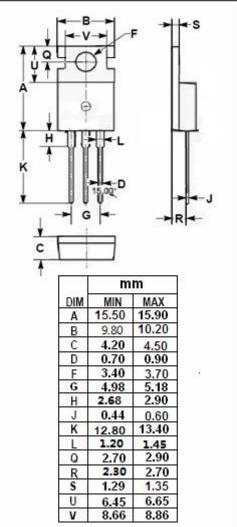
### **MECHANICAL CHARACTERISTICS**

- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 ℃ Max. for 10 Seconds

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	150	V
$V_{R(RMS)}$	RMS Reverse Voltage	106	V
I <sub>F(AV)</sub>	Average Rectified Forward Current (Rated V <sub>R</sub> ) T <sub>C</sub> = 120 <sup>°</sup> C	10	А
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	200	А
TJ	Junction Temperature	-65~175	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-65~175	$^{\circ}$







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#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	2	°C/W

### **ELECTRICAL CHARACTERISTICS** (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	$I_{F}$ = 10A; $T_{C}$ = 25°C $I_{F}$ = 10A; $T_{C}$ = 125°C $I_{F}$ = 20A; $T_{C}$ = 25°C	0.78 0.65 0.86	V
IR	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 25°C Rated DC Voltage, T <sub>C</sub> = 125°C	0.5 25	mA



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