

# **Schottky Barrier Rectifier**

## **SBR30150CT**

#### **FEATURES**

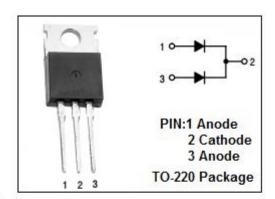
- · With TO-220 packaging
- · High junction temperature capability
- Low forward voltage drop
- · High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

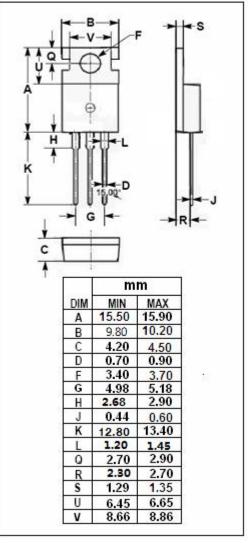
### **APPLICATIONS**

- · Switching power supply
- · Free-Wheeling diodes
- · Reverse battery protection
- Center tap configuration

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
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
I <sub>F(AV)</sub>	Average Rectified Forward Current@Tc=130℃	30	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current ( 8.3ms single half sine-wave superimposed on rated load conditions) tp=5 µ s sine	200	A
TJ	Junction Temperature	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≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 15A ; Tc= 25 ℃	0.92	V
		I <sub>F</sub> = 15A ; Tc= 125°C	0.82	
	A.C.	V <sub>R</sub> = V <sub>RWM;</sub> Tc= 25°C	0.1	
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = V <sub>RWM;</sub> Tc= 125°C	10	mA



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