

Schottky Barrier Rectifier

SBR30150CT

FEATURES

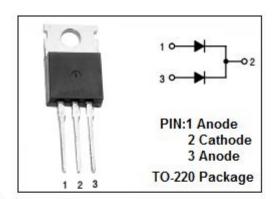
- · With TO-220 packaging
- · High junction temperature capability
- Low forward voltage drop
- · High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

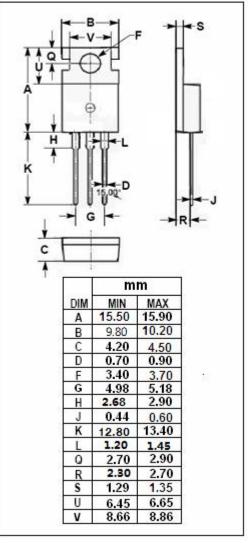
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current@Tc=130℃	30	Α
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions) tp=5 µ s sine	200	А
TJ	Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	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 _F = 15A ; Tc= 25 ℃	0.92	V
		I _F = 15A ; Tc= 125°C	0.82	
	A.C.	V _R = V _{RWM;} Tc= 25°C	0.1	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tc= 125°C	10	mA



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