

Schottky Barrier Rectifier

SBR30A150CT

FEATURES

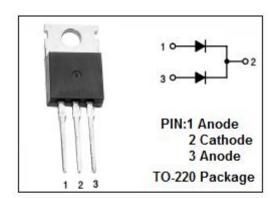
- With TO-220 packaging
- · High junction temperature capability
- · Low forward voltage drop
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

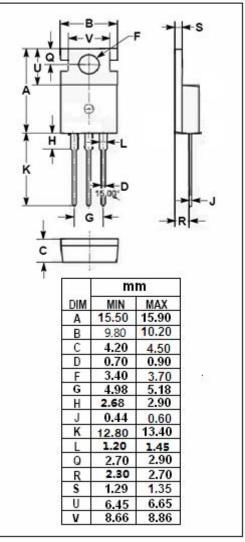
APPLICATIONS

- 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	٧
I _{F(AV)}	Average Rectified Forward Current@Tc=150℃	30	Α
I _{FSM}	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	250	Α
TJ	Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$ 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 ; Tc= 25℃	0.88	V
		I _F = 15A ; Tc= 125℃	0.74	
		I _F = 30A ; Tc= 25 ℃	0.98	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tc= 25°C	0.1	mA
		V _R = V _{RWM} ,Tc= 125°C	10	

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