

Schottky Barrier Rectifier

SBR30200CT

FEATURES

- · With TO-220 packaging
- · Metal silicon junction, majority carrier conduction
- · Low power loss, high efficiency
- · Guardring for overvoltage protection
- · High surge current capability
- Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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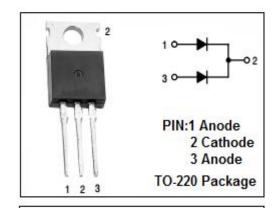
APPLICATIONS

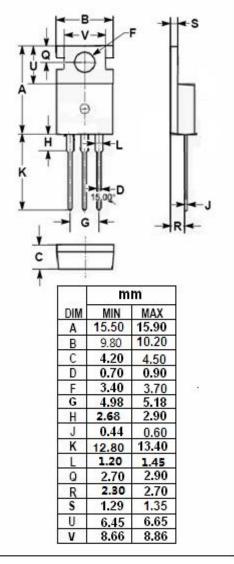
- · Switching power supply
- Converters
- · Free-Wheeling diodes
- · Reverse battery protection
- Center tap configuration



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current @Tc=120℃	30	Α
I _{FSM}	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	200	Α
I _{FRM}	Peak Repetitive Reverse Surge Current	30	Α
Тл	Junction Temperature	-65~175	$^{\circ}$
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	2.0	°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 °C I _F = 15A ;Tc= 125 °C	0.98 0.88	V
I _R	Maximum Instantaneous Reverse Current	V_R = rated V_{RRM} ; Tc= 25 $^{\circ}$ C V_R = rated V_{RRM} ; Tc= 125 $^{\circ}$ C	0.1 10	mA



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