

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

SBR60A150CT

FEATURES

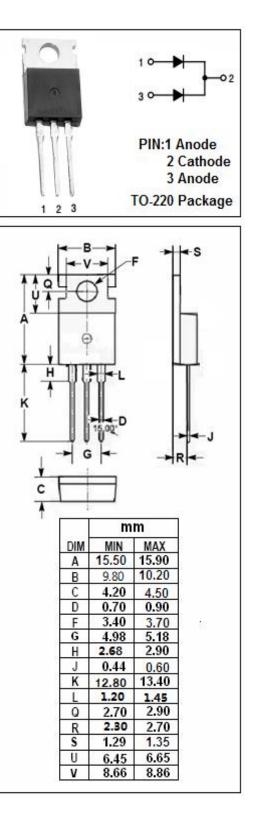
- With TO-220 packaging
- · Soft, fast switching capability
- Low forward voltage drop
- · Low leakage current
- High frequency operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	DL PARAMETER		VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak repetitive reverse voltage RMS voltage DC blocking voltage	Itage		V
IF(AV)	Average rectified forward current	Per Leg Total	30 60	A
IFSM	Nonrepetitive peak surge current (8.3ms single half sine-wave superimposed on rated load conditions)		350	A
TJ	Junction temperature		-65~175	°C
T _{stg}	Storage temperature range		-65~175	Ĉ



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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	МАХ	UNIT
VF	Maximum instantaneous forward voltage	I _F = 30A; Tc= 25℃ I _F = 30A; Tc=125℃	0.93 0.77	v
I _R	Maximum instantaneous reverse current (Short duration pulse test used to minimize self-heating effect)	V _R = rated V _{RRM} ; Tc= 25℃ V _R = rated V _{RRM} ; Tc= 125℃	0.1 10	mA
trr	Reverse recovery time	I _F =0.5A;I _R =1A;I _{RR} =0.25A	50	ns

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