

Schottky Barrier Rectifier
SBR10U60CT
FEATURES

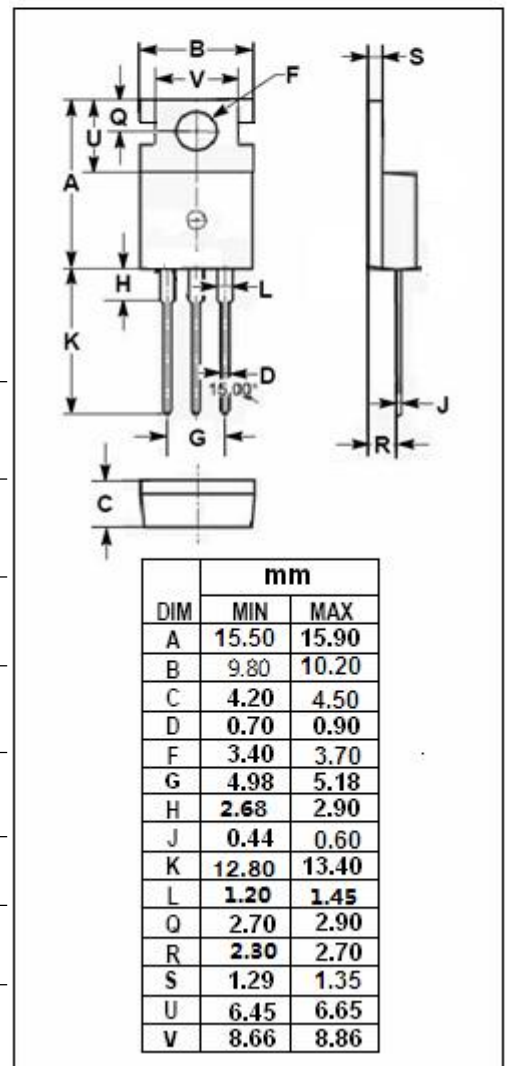
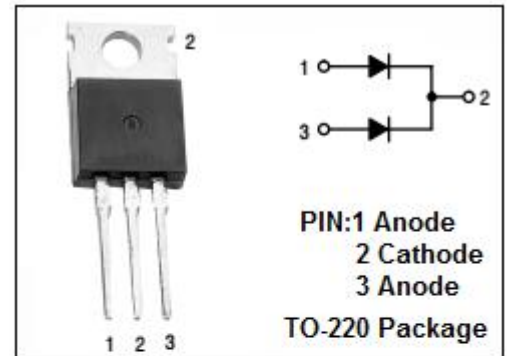
- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Soft, Fast Switching Capability
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- For use in low voltage ,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{VRM} V _{RM}	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
V _{R(RMS)}	RMS Reverse Voltag	42	V
I _{F(AV)}	Average Rectified Forward Current	10	A
I _{FSM}	Non-repetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	150	A
T _J	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~150	°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 μs, Duty Cycle ≤ 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 5A ; T _c = 25°C	0.48	V
		I _F = 10A ; T _c = 25°C	0.62	
I _R	Maximum Instantaneous Reverse Current	V _R = 60V; T _c = 25°C	0.5	mA
		V _R = 60V; T _c = 125°C	100	

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