

Schottky Barrier Rectifier

MBR1060CT

FEATURES

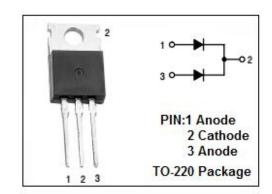
- · Low Forward Voltage
- · Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

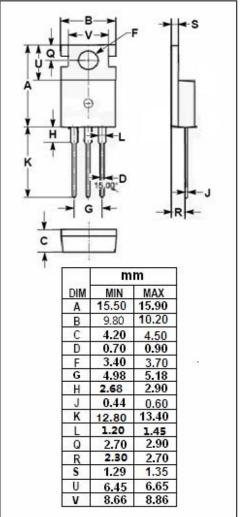


• For use in low voltage, high frequency inverters, free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	60	V
lF(AV)	Average Rectified Forward Current (Rated V_R) T_C = 100 $^{\circ}$ C		Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	125	А
TJ	Junction Temperature	-65~150	${\mathbb C}$
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 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	$I_F = 5A$; $T_C = 125^{\circ}C$ $I_F = 5A$; $T_C = 25^{\circ}C$ $I_F = 10A$; $T_C = 25^{\circ}C$	0.7 0.8 0.95	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 125°C Rated DC Voltage, T _C = 25°C	15 0.1	mA



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