

Schottky Barrier Rectifier

MBR2030CT

FEATURES

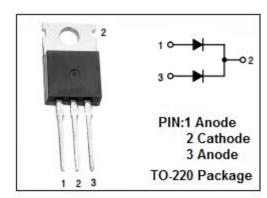
- · Schottky Barrier Chip
- · Low Power Loss/High Efficiency
- High current capability, low forward voltage drop
- · High surge capability
- · Guardring for overvoltage protection
- · High temperature soldering guaranteed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

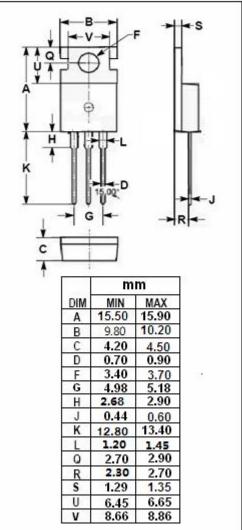
APPLICATIONS

• Designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	30	V
$V_{\text{R(RMS)}}$	RMS Reverse Voltage	21	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 120 [°] C	20	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	А
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~175	°C







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth 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
V _F	Maximum Instantaneous Forward Voltage	I _F = 10A; T _C = 25°C I _F = 20A; T _C = 25°C I _F = 20A; T _C = 125°C	0.70 0.84 0.72	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T_C = 25 $^{\circ}$ C Rated DC Voltage, T_C = 125 $^{\circ}$ C	0.1 50	mA



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