

Schottky Barrier Rectifier

MBR3030CT

FEATURES

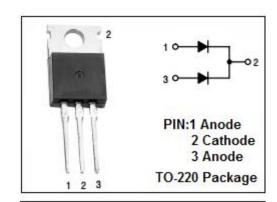
- · Schottky Barrier Chip
- Dual Rectifier Conduction, Positive Center Tap
- Low Power Loss/High Efficiency
- High Current Capability, Low Forward Voltage Drop
- · High Surge Capacity
- · Guarding for Overvoltage protection
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

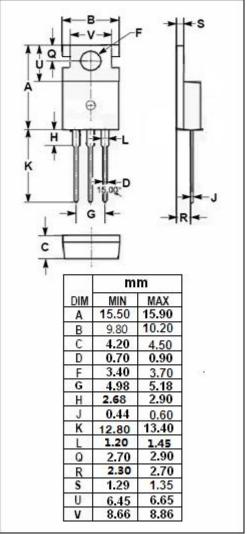
APPLICATIONS

• 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 = 100 [°] C	30	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	200	А
TJ	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$
dv/dt	Voltage Rate of Change (Rated V _R)	10,000	V/μs







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	1.5	°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 = 15A; T _C = 25°C I _F = 30A; T _C = 25°C I _F = 30A; T _C = 125°C	0.70 0.84 0.72	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 °C Rated DC Voltage, T _C = 125 °C	0.2 40	mA



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