

Schottky Barrier Rectifier

MBR3050CT

FEATURES

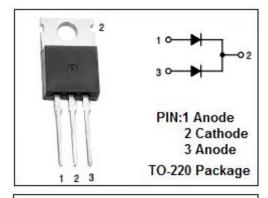
- · Schottky Barrier Chip
- Dual Rectifier Conduction, Positive Center Tap
- · Low Power Loss/High Efficiency
- High Current Capability, Low Forward Voltage Drop
- High Surge Capacity
- Guarding for Overvoltage protection
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance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

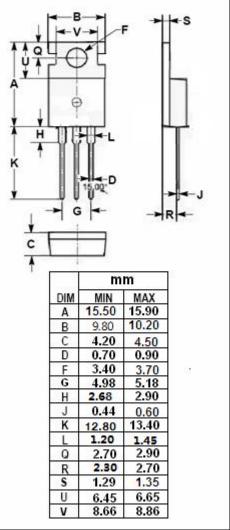


 Designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	50	V
$V_{\text{R(RMS)}}$	RMS Reverse Voltage	35	V
l _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 130 [°] C	30	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	250	А
I _{RRM}	Peak Repetitive Reverse Surge Current	1.0	Α
TJ	Junction Temperature	-65~150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$
dv/dt	Voltage Rate of Change (Rated V _R)	1,000	V/μs







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	1.0	°C/W

ELECTRICAL CHARACTERISTICS(Pulse Test: Pulse Width ≤300 µ s, Duty Cycle ≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A; T _C = 25°C I _F = 15A; T _C = 125°C	0.75 0.65	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 °C Rated DC Voltage, T _C = 125 °C	0.2 50	mA



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