

Schottky Barrier Rectifier

MBR2545CT

FEATURES

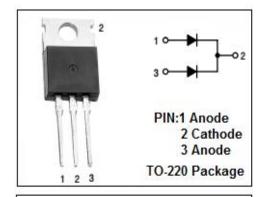
- · Schottky Barrier Chip
- Dual Rectifier Conduction, Positive Center Tap
- · Low Power Loss/High Efficiency
- High Current Capability, Low Forward Voltage Drop
- High Surge Capacity
- Guarding for Overvoltage protection
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance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

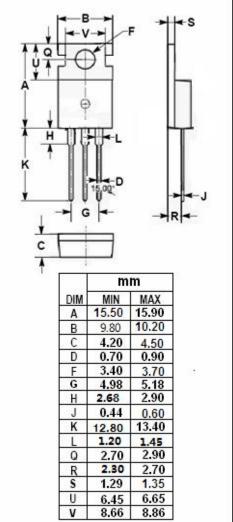


 Designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current (Rated V_R) T_C = 130 $^{\circ}C$	30	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	А
I _{RRM}	Peak Repetitive Reverse Surge Current	1.0	Α
T_J	Junction Temperature	-65~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	°C
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 = 30A; T _C = 25°C I _F = 30A; T _C = 125°C	0.82 0.73	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T_C = 25 $^{\circ}$ C Rated DC Voltage, T_C = 125 $^{\circ}$ C	0.2 40	mA



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