

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

MBR1630CT

FEATURES

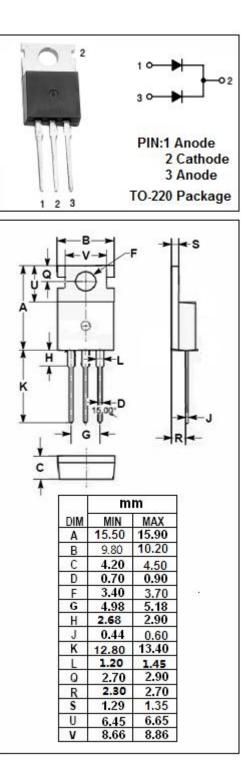
- Low Forward Voltage
- 150℃ Operating Junction Temperature
- Guaranteed Reverse Avalanche
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 $^\circ\!\mathrm{C}$ Max. for 10 Seconds

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	30 21 30	V
IF(AV)	Average Rectified Forward Current (Rated V _R) T _C = 100 $^{\circ}$ C		A
IFSM	Nonrepetitive Peak Surge Current8.3ms single half sine-wave superimposed0n rated load conditions		A
I _{RRM}	Peak Repetitive Reverse Current (2.0 μ s, 1.0kHz)0.5		A
TJ	Junction Temperature	-55~150	°C
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

$\textbf{ELECTRICAL CHARACTERISTICS} (Pulse Test: Pulse Width=300 \ \mu \ s, Duty \ Cycle \leqslant 2\%)$

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 8A ; T _C = 25℃ I _F = 8A ; T _C = 125℃	0.70 0.57	V
IR	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 $^\circ\!\mathrm{C}$ Rated DC Voltage, T _C = 100 $^\circ\!\mathrm{C}$	0.1 50	mA

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