

INCHANGE SEMICONDUCTOR

Schottky Barrier Rectifier

MBR4030CT

FEATURES

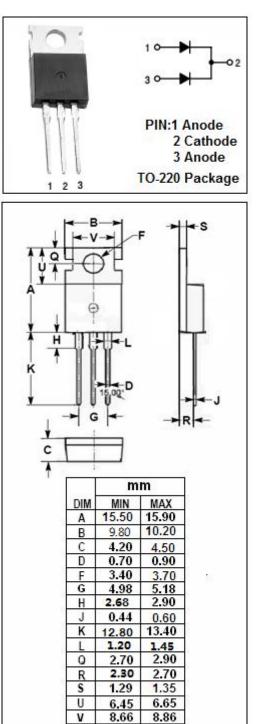
- With TO-220 packaging
- · High junction temperature capability
- Low forward voltage drop
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

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
IF(AV)	Average Rectified Forward Current @Tc=150°C	40	A
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions) tp=5 µ s sine	300	A
TJ	Junction Temperature	-55~150	°C
Tstg	Storage Temperature Range	-55~150	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.25	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	IF= 20A ; Tc= 25 ℃	0.55	V
IR	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tc= 25°C	1	mA
		V г= V _{₨₩М;} Тс= 125°С	110	

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