

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

MBRF1060CT

FEATURES

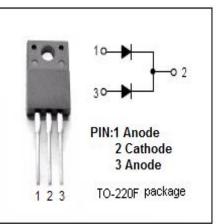
- With TO-220F packaging
- · High junction temperature capability
- · Low forward voltage
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

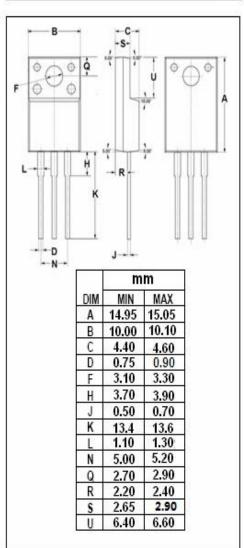


- Switching power supply
- · Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} VR	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	60	v
IF(AV)	Average Rectified Forward Current @Tc=110°C	10	А
IFSM	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	120	A
TJ	Junction Temperature	-65~150	°C
Tstg	Storage Temperature Range	-65~150	°C





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 5A;Tj= 25℃ I _F = 5A;Tj= 125℃ I _F = 10A;Tj= 25℃ I _F = 10A;Tj= 125℃	0.80 0.65 0.90 0.75	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; Tj= 25℃ V _R = rated V _{RRM} ; Tj=125℃	0.1 10	mA

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