

Schottky Barrier Rectifier

MBR20300CT

FEATURES

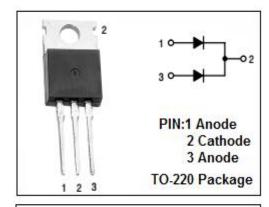
- · Metal silicon junction, majority carrier conduction
- · Low leakage current, low power loss, high efficiency
- Dual rectifier construction, positive center tap
- · Guardring for overvoltage protection
- · High surge current capability
- · Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

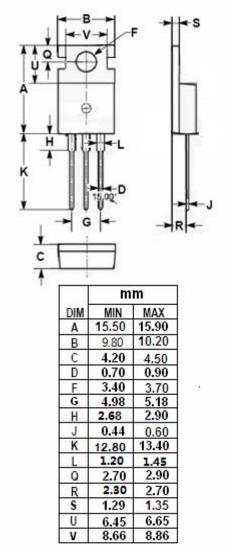
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	300	V
I _{F(AV)}	Average Rectified Forward Current @Tc=120℃	20	Α
I _{FSM}	Nonrepetitive Peak Surge Current (60Hz half-sine wave ,1 cycle)	200	Α
Тл	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 10A	0.89	V
I _R	Maximum Instantaneous Reverse Current	V_R = rated V_{RRM} ; Tc= 25 $^{\circ}$ C V_R = rated V_{RRM} ; Tc= 125 $^{\circ}$ C	0.1 5	mA

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