

Schottky Barrier Rectifier

MBR20300C

FEATURES

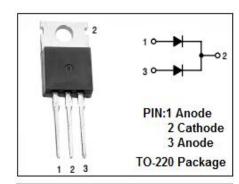
- · Low leakage current
- · Low forword voltage
- · High surge current capability
- Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

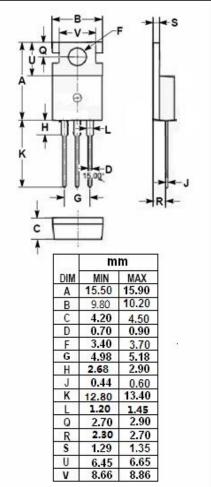
APPLICATIONS

- Switching power supply
- Converters
- · Reverse battery protection

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=125℃	20	А
IFSM	Nonrepetitive Peak Surge Current (60Hz half-sine wave)	180	Α
TJ	Junction Temperature	-65~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	${\mathbb C}$







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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
VF	Maximum Instantaneous Forward Voltage	I _F = 10A; Tc= 25 ℃ I _F = 10A; Tc= 125 ℃	0.95 0.85	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	0.5 3	μA mA



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