

INCHANGE SEMICONDUCTOR

Schottky Barrier Rectifier

MBRD20200CT

 High free Low forn Guard r long ter Minimul perform APPLICA Switchir Free-W Reverse 	ward voltage drop equency operation ward voltage drop ing for enhanced ruggedness and m reliability m Lot-to-Lot variations for robust device ance and reliable operation		
SYMBOL	PARAMETER	VALUE	UNIT
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 125 $^\circ\! {\rm C}$	20	A
IFRM	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz) T _C = 90 $^\circ\!\mathrm{C}$	20	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	120	A
TJ	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~150	°C
dv/dt	Voltage Rate of Change (Rated V_R)	10,000	V / µ s



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	6.0	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle \leq 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I⊧= 10A ; Tc= 25℃ I⊧= 10A ; Tc= 125℃	1.0 0.9	V
IR	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 $^\circ \! \mathbb{C}$	1.0	mA

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