

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high The proprietary barrier technology allows for temperature operation metal. reliable operation up to 175 junction temperature. Typical application are in switching Mode Power Supplies such as adaptors, DC/DC converters, freewheeling and polarity protection diodes.

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- **Operating Junction Temperature**
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

Flammability Classification 94V-O

* ESD: 4KV(Min.) Human-Body Model





MAXIMUM RATINGS

Characteristic	Symbol	MBR20200CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	V
Average Rectifier Forward Current Total Device (Rated V _R),T _C =125	I _{F(AV)}	10 20	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150	А
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +175	

THERMAL RESISTANCES

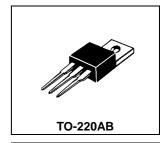
Typical Thermal Resistance junction to case	$R_{\theta jc}$	3.8	/w
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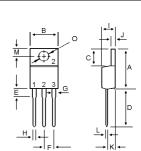
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	MBR20200CT	Unit	
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25$) ($I_F = 10 \text{ Amp } T_C = 125$)	V _F	0.95 0.85	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.01 10	mA	

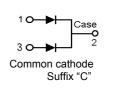
SCHOTTKY BARRIER RECTIFIERS

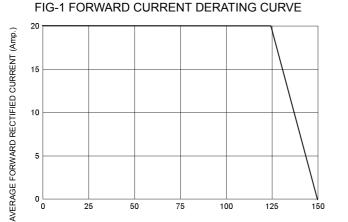
20 AMPERES 200 VOLTS



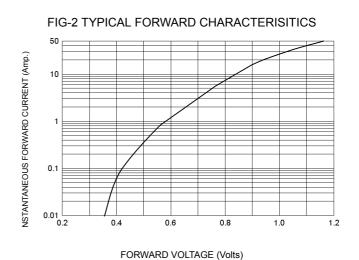


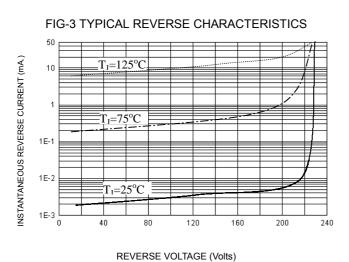
DIM	MILLIM	ETERS
DIIVI	MIN	MAX
Α	14.68	15.32
В	9.78	10.42
С	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
G	1.12	1.36
Н	0.72	0.96
- 1	4.22	4.98
J	1.14	1.38
K	2.20	2.98
L	0.33	0.55
M	2.48	2.98
0	3.70	3.90

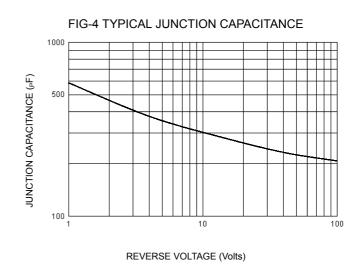


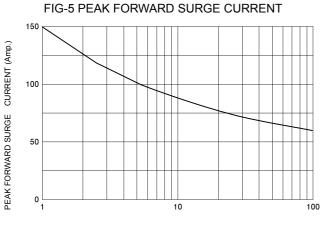


CASE TEMPERATURE ()









NUMBER OF CYCLES AT 60 Hz