

MBR5200F

Schottky Diodes



Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- **Package:** ITO-220AC
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR5200F
Device marking code				MBR5200F
Repetitive Peak Reverse Voltage	V_{RRM}	V		200
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25	I_O	A		
	F_{SM}	A		120
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A ² s		60
Storage Temperature	T_{stg}			-55 ~ +175
Junction Temperature	T_j			-55 ~ +175

■Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR5200F
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=5.0A$	0.9
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ Ta=25	0.1
	I_{RRM2}		$V_{RM}=V_{RRM}$ Ta=125	20

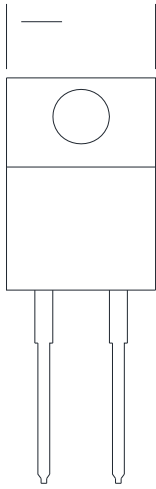
Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS





■Outline Dimensions



ITO-220AC		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.5	4.1
F	0.45	0.75
G	0.45	0.75
H	13.35	14.15
I	4.97	5.23
J	4.3	4.8
K	2.5	2.74
L	2.58	2.82
M	1.03	1.43

