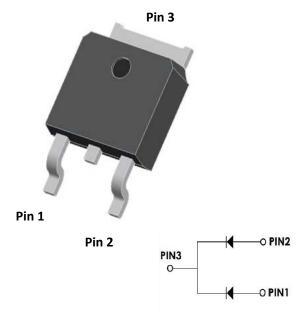




Schottky Diodes



Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

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

Mechanical Data

• Package: TO-252

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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR20100CD
Device marking code			MBR20100CD
Repetitive Peak Reverse Voltage	VRRM	V	100
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25℃	IO	А	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25°C	IFSM	А	150
Current Squared Time @1ms≤t≤8.3ms Tj=25°C	l ² t	A ² s	94
Storage Temperature	T _{stg}	°C	-55 ~ +150
Junction Temperature	Tj	°C	-55 ~ + 150

■Electrical Characteristics (T_a=25 °C Unless otherwise specified)

			·	
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR20100CD
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=10A	0.9
Maximum DC reverse current	IRRM1	mA	VRM=VRRM Tj=25℃	0.05
at rated DC blocking voltage per diode	IRRM2		VRM=VRRM Tj=125℃	6

■Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARA	METER	SYMBOL	UNIT	MBR20100CD
Thermal Resistance	Between junction and case	R _{θJ-C}	°CMV	3.0

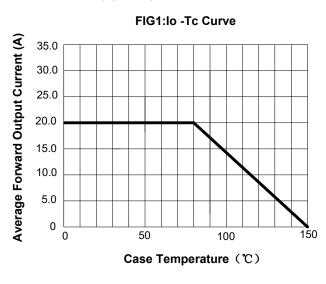


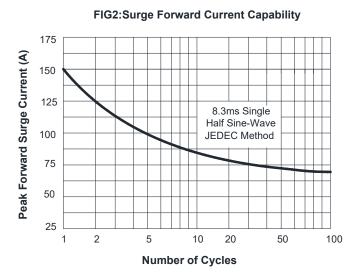
MBR20100CD

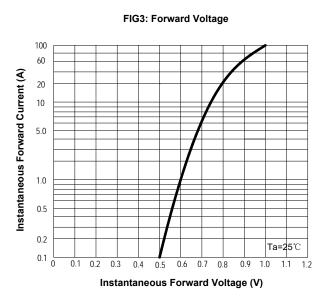
■Ordering Information (Example)

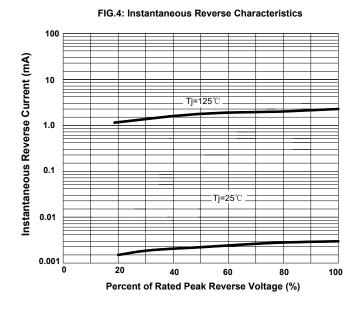
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR20100CD	Approximate 1.9	3000	3000	30000	Reel

■Characteristics (Typical)





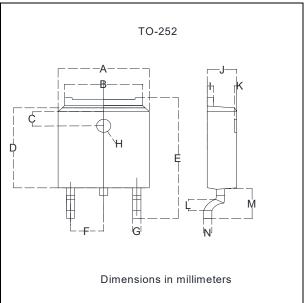






MBR20100CD

■Outline Dimensions



TO-252				
Dim	Min	Max		
Α	6.500	6.700		
В	5.100	5.460		
С	1.400	1.600		
D	6.000	6.200		
E	10.000	10.400		
F	2.166	2.366		
G	0.660	0.860		
Н	Ф1.100	Ф1.300		
1	0.460	0.580		
J	2.200	2.400		
K	0	0.300		
L	0.890	2.290		
М	2.730	3.080		
N	0.430	0.580		

Disclaimer

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