



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

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	MBRL10100CD
Device marking code			MBRL10100CD
Repetitive Peak Reverse Voltage	VRRM	٧	100
Average Rectified Output Current @60Hz sine wave, R-load, Tc=114°C	lo	А	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25℃	IFSM	Α	100
Current Squared Time @1ms≤t≤8.3ms Tj=25°C ,	l²t	A ² s	41
Storage Temperature	T _{Stg}	$^{\circ}$	-55 ~ + 150
Junction Temperature	Tj	$^{\circ}$	-55 ~ + 150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL10100CD
Maximum instantaneous forward voltage drop per device	VFM	>	IFM=5.0A	0.72
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1		VRM=VRRM Ta=25℃	0.1
	IRRM2	mA	VRM=VRRM Ta=125℃	20

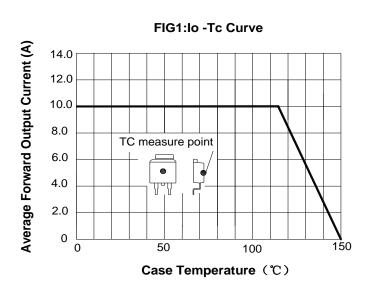
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

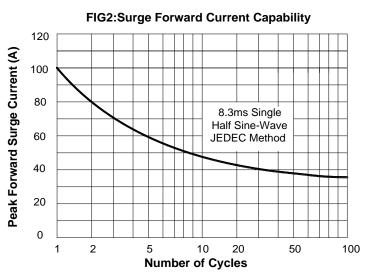
PARAMETER		SYMBOL	UNIT	MBRL10100CD
Thermal Resistance	Between junction and case	Рθ _{Ј-С}	°CMV	5.0

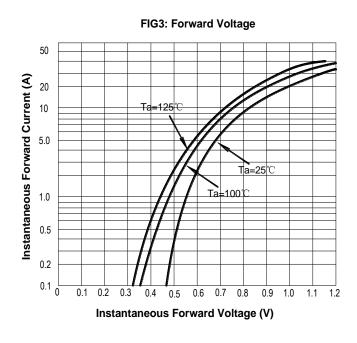
■Ordering Information (Example)

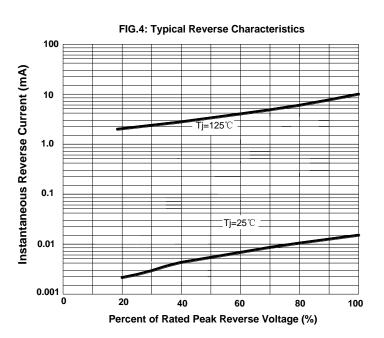
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL10100CD	Approximate 0.32	2500	2500	25000	Reel

■Characteristics (Typical)

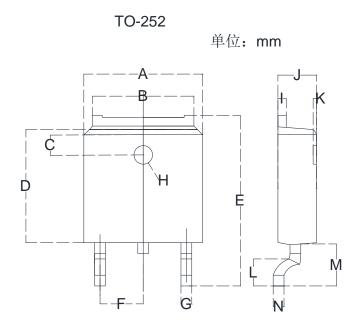








■Outline Dimensions



TO-252				
Dim	Min	Max		
Α	6.500	6.700		
В	5.100	5.460		
С	1.400	1.800		
D	6.000	6.200		
Е	10.000	10.400		
F	2.166	2.366		
G	0.660	0.860		
Н	Ф1.050	Ф1.350		
I	0.460	0.580		
J	2.200	2.400		
K	0	0.300		
L	0.890	2.290		
M	2.730	3.080		
N	0.430	0.580		



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