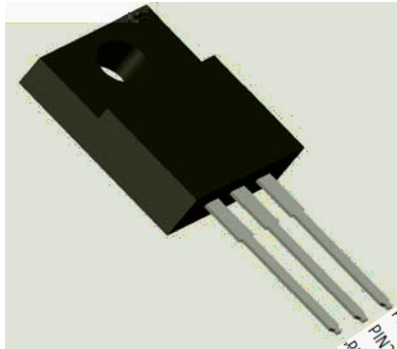




Schottky Diodes



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

- Pin 1 is indicated by a dot, solderable per J-STD-002 and JESD22-B102

- Polarity: As marked

■Maximum Ratings (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR10100FCTS	MBR10150FCTS	MBR10200FCTS
Device marking code			MBR10100FCTS	MBR10150FCTS	MBR10200FCTS
Repetitive Peak Reverse Voltage	V _{RRM}	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, T _c =140 °C	I _A	A	1		
Surge (Non-repetitive) Forward Current @ 60Hz half sine-wave, 1 cycle, T _a =25 °C	I _{FSM}	A		100	
Current Squared Time @1ms≤t≤8.3ms T _j =25 °C	I ² t	A ² s		41	
Storage Temperature	T _{stg}			-55 ~ +175	
Junction Temperature	T _j			-55 ~ +175	

■Electrical Characteristics T_a=25 °C Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR10100FCTS	MBR10150FCTS	MBR10200FCTS
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =5.0A	0.85	0.9	0.95
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _a =25 °C	0.1		
	I _{RRM2}		V _{RM} =V _{RRM} T _a =125 °C	20		

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

Note2:Pulse test:pulse width 40mS



MBR10100FCTS THRU MBR10200FCTS

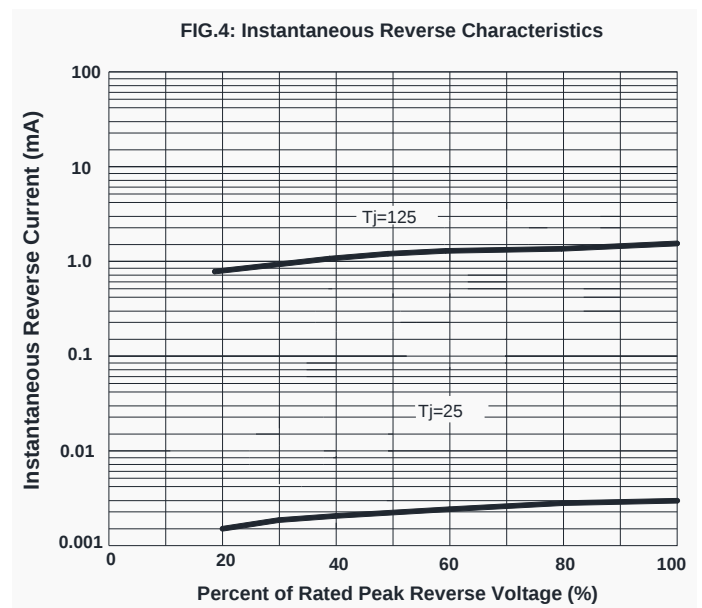
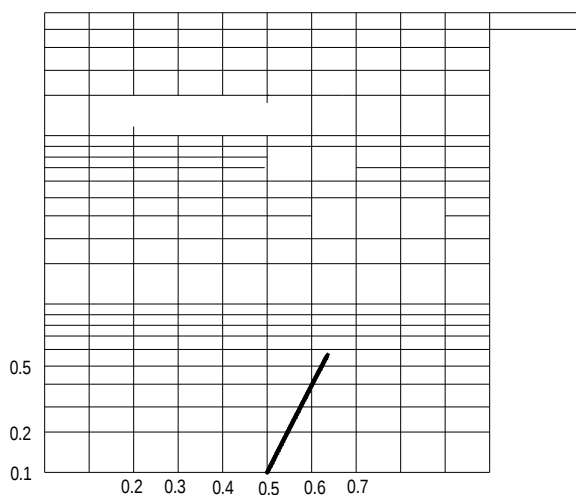
■ Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR10100FCTS	MBR10150FCTS	MBR10200FCTS
Thermal Resistance	Between junction and case	$R_{\theta j-c}$	/W	4.0		

■ Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR10100FCTS THRU MBR10200FCTS	Approximate 1.9	50	1000	5000	Tube

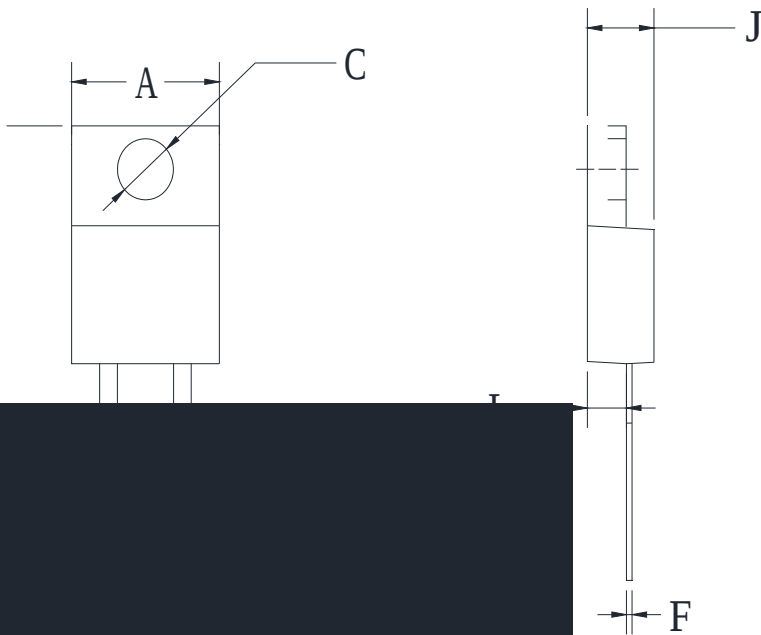
■ Characteristics (Typical)





MBR10100FCTS THRU MBR10200FCTS

■Outline Dimensions



ITO-220AB		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.05	3.95
F	0.45	0.75
G	0.45	0.75
H	13.4	14.2
I	2.35	2.75
J	4.3	4.8
K	2.58	2.82
L	2.58	2.82
M	1.47	1.77

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