



THE DATASHEET OF MBR10H150FCT_T0_00001

BD10H150CS \ MBR10H150CT \ MBR10H150FCT \ MBR10H150DC SERIES

ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

Voltage **150 V** **Current** **10 A**

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- High junction temperature capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

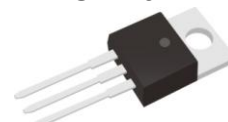
- Case: TO-252, TO-220AB, ITO-220AB, TO-263 package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- TO-252 Weight: 0.0104 ounces, 0.297 grams
- TO-220AB Weight: 0.067 ounces, 1.89 grams.
- ITO-220AB Weight: 0.056 ounces, 1.6 grams.
- TO-263 Weight: 0.049 ounces, 1.38 grams.
- Marking: Part number

	150V
TO-252	BD10H150CS
TO-220AB	MBR10H150CT
ITO-220AB	MBR10H150FCT
TO-263	MBR10H150DC

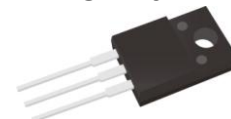
TO-252



TO-220AB



ITO-220AB



TO-263



Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	150V	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	150	V
Maximum rms voltage		V_{RMS}	105	V
Maximum dc blocking voltage		V_R	150	V
Maximum average forward rectified current	per device	$I_{F(AV)}$	10	A
	per diode		5	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load per diode		I_{FSM}	120	A
Maximum forward voltage at 5A per diode		V_F	0.85	V
Maximum dc reverse current at rated dc blocking voltage	$T_J = 25^{\circ}\text{C}$	I_R	0.5	μA
	$T_J = 125^{\circ}\text{C}$		1	mA
Typical thermal resistance	TO-252 (Note 1)	$R_{\theta JC}$	6	$^{\circ}\text{C/W}$
	TO-220AB (Note 1)		3	
	TO-263 (Note 1)		3	
	ITO-220AB (Note 1)		7	
Operating junction temperature range		T_J	-55 to +175	$^{\circ}\text{C}$
Storage temperature range		T_{STG}	-55 to +175	$^{\circ}\text{C}$

Note : 1. Device mounted on a infinite heatsink, then measured the center of the marking side.

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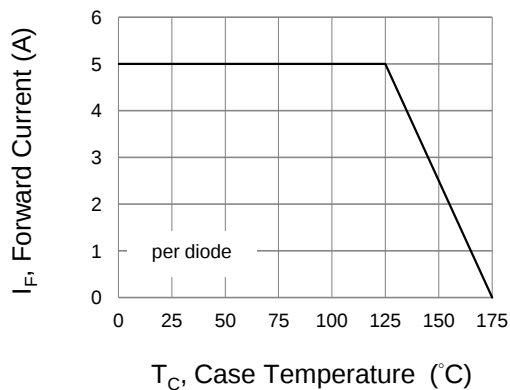


Fig.1 Forward Current Derating Curve

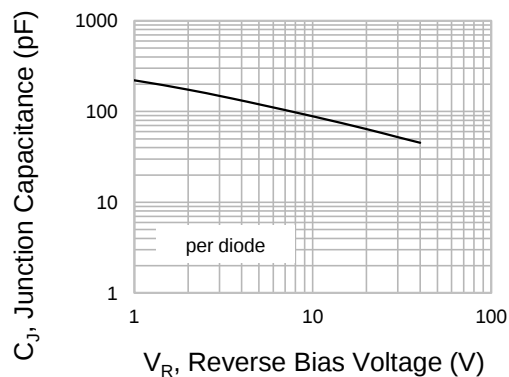


Fig.2 Typical Junction Capacitance

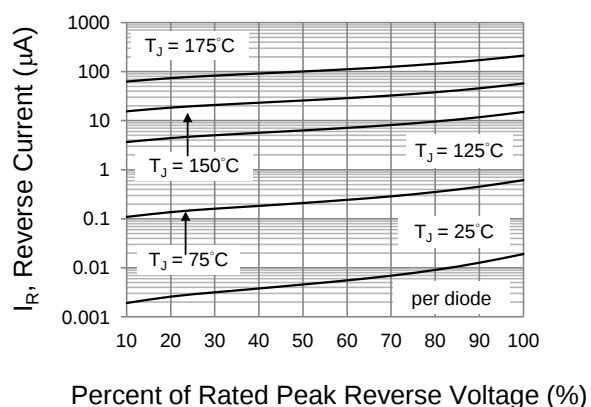


Fig.3 Typical Reverse Characteristics

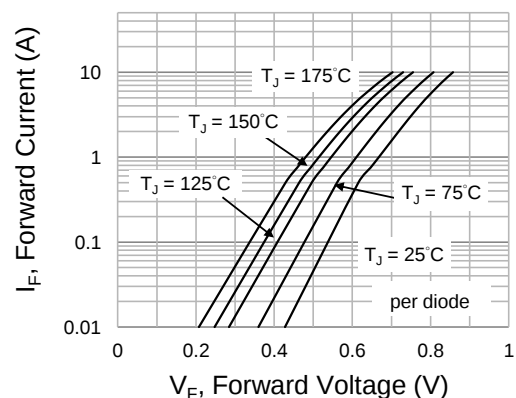


Fig.4 Typical Forward Characteristics

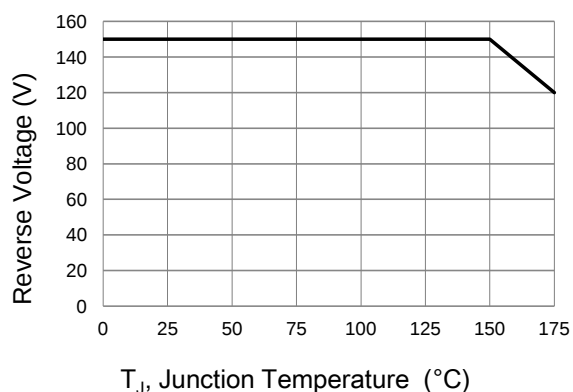
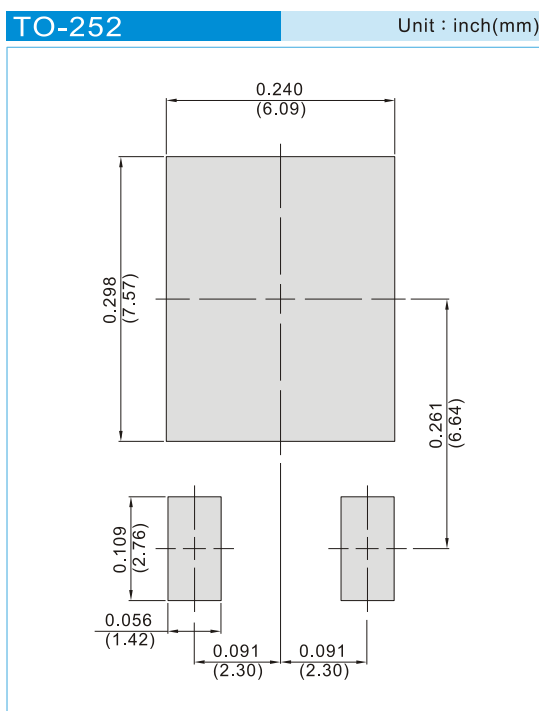


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT

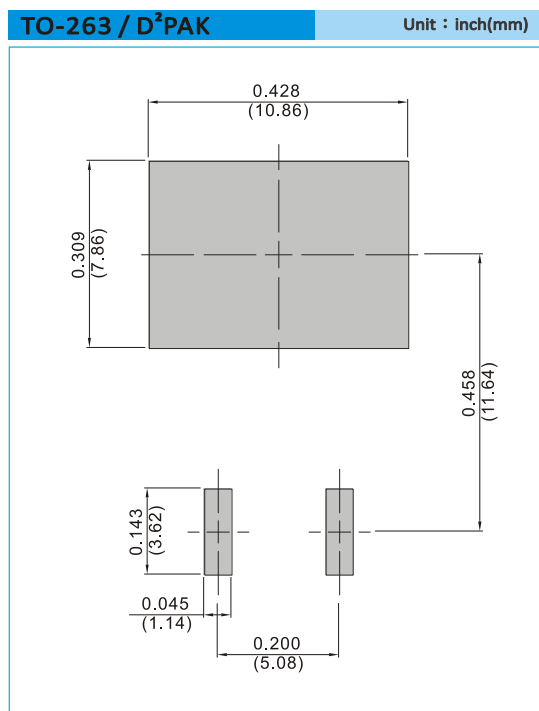


ORDER INFORMATION

- Packing information
T/R - 3K per 13" plastic Reel

BD10H150CS \ MBR10H150CT \ MBR10H150FCT \ MBR10H150DC SERIES

MOUNTING PAD LAYOUT



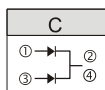
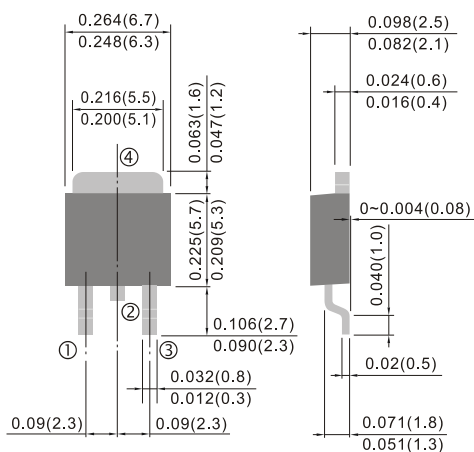
ORDER INFORMATION

- Packing information
T/R – 0.8K per 13" plastic Reel

BD10H150CS \ MBR10H150CT \ MBR10H150FCT \ MBR10H150DC SERIES

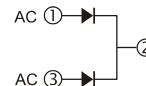
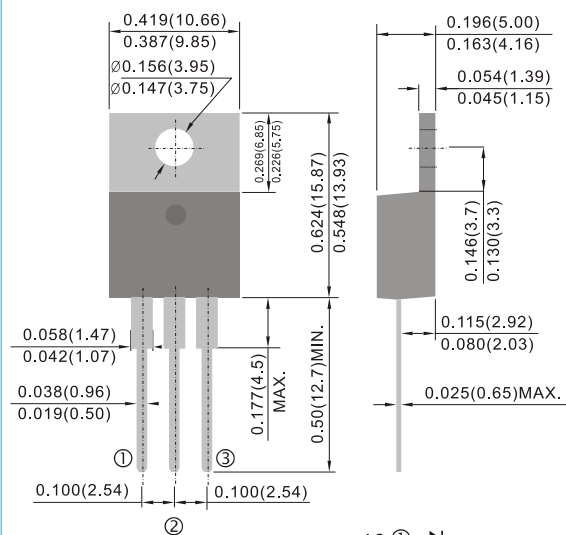
TO-252

Unit : inch(mm)



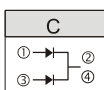
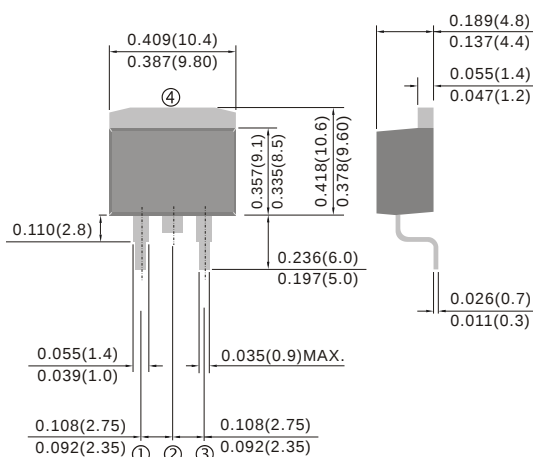
TO-220AB

Unit : inch(mm)



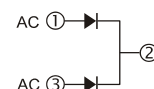
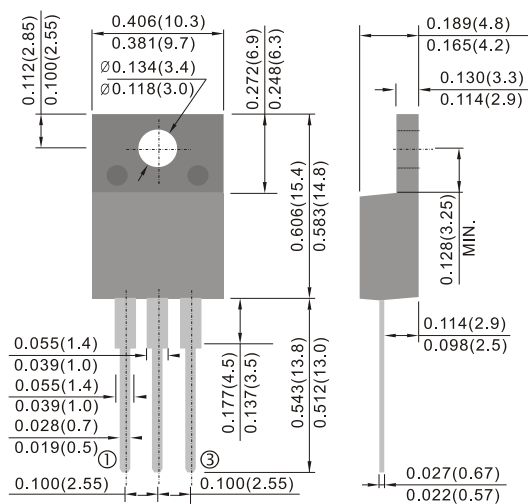
TO-263 / D²PAK

Unit : inch(mm)



ITO-220AB

Unit : inch(mm)



BD10H150CS \ MBR10H150CT \ MBR10H150FCT \ MBR10H150DC SERIES

Part No_packing code_Version

BD10H150CS_L2_00001

BD10H150CS_S2_00001

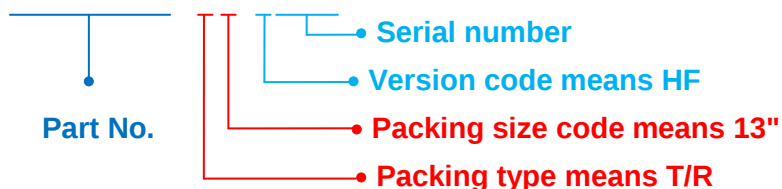
MBR10H150CT_T0_00001

MBR10H150DC_R2_00001

MBR10H150FCT_T0_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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