



Extrtreme Low VF Schottky Barrier Rectifiers
Reverse Voltage - 150 Volts
Forward Current - 30 Amperes

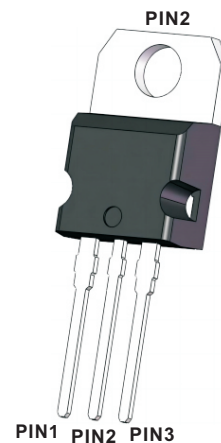
Features

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

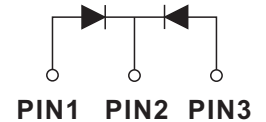
Mechanical data

- Case: TO-220-3L
- Approx Weight: 2.04g (0.07oz)
- Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.

TO-220F-3L



ROHS
COMPLIANT



Packing Marking And Ordering Information

Device Package	Device	Marking	Packing Type	QTY Per Tube	Inner box	Per Carton
TO-220-3L	MBRT30150CD	MBRT30150CD	Tube	50 Pcs	2,500 Pcs	5,000 Pcs

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symbols	MBRT30150CD	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Average Rectified Forward Current Per leg Per device	I_o	15 30	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I_{FSM}	200	A
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Characteristics	Symbols	Test Conditions	Min	Typ	Max	Units
Breakdown voltage per leg	V_{BR}	$I_R=0.1mA$	150			V
Instantaneous forward voltage per leg	V_F	$I_F=15A, T_J=25^\circ C$		0.82	0.90	V
Reverse current per leg	I_R	$V_R=150V, T_J=25^\circ C$			0.1	mA



Fig.1 Typical Forward Current Derating Curve

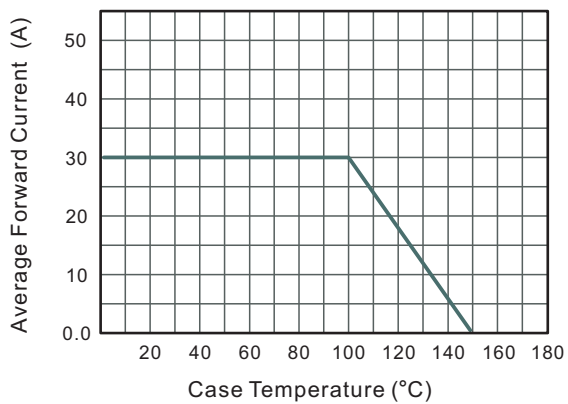


Fig.2 Typical Reverse Characteristics

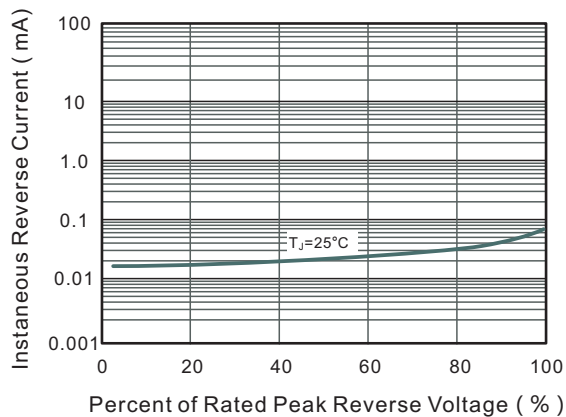


Fig.3 Typical Forward Characteristic(per leg)

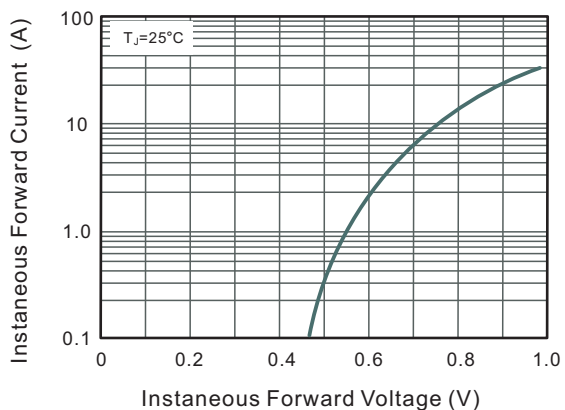
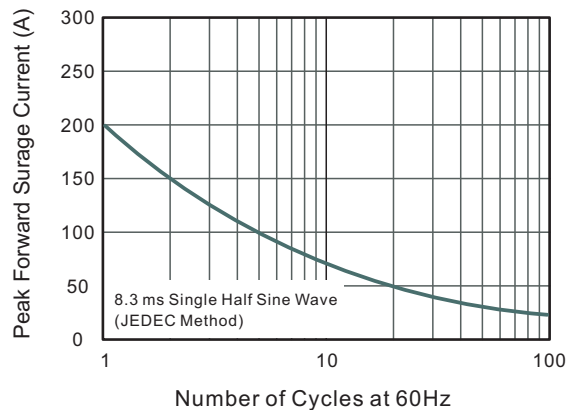


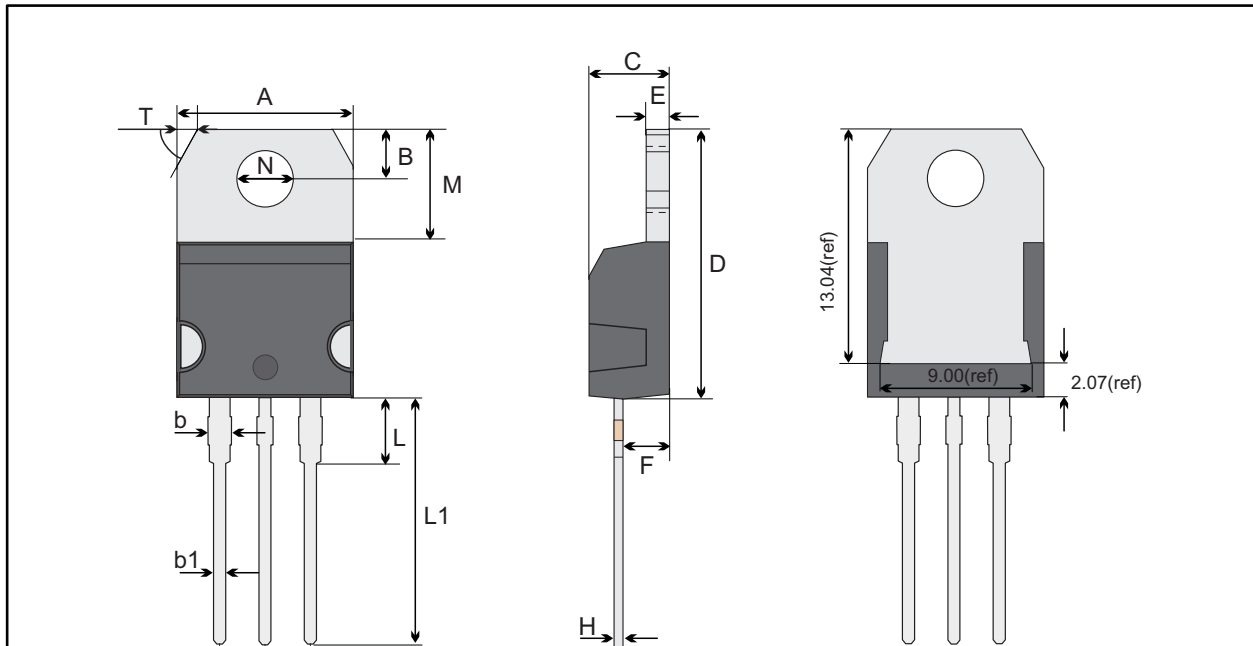
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





Package Outline
Through Hole Package ; 3 leads

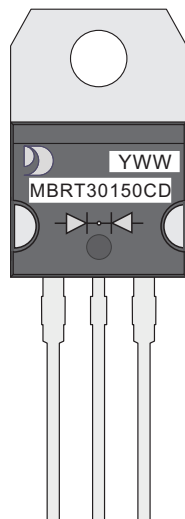
TO-220-3L



TO-220-3L mechanical data

UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N	T
mm	max	10.28	2.84	1.67	0.9	4.65	15.54	1.37	2.79	2.64	0.6	3.88	13.13	6.39	3.82 typ.	1.19 58° ref.
	typ	10.18	2.74	1.47	0.8	4.45	15.34	1.27	2.59	2.54	0.5	3.68	12.93	6.19		
	min	10.08	2.64	1.27	0.7	4.25	15.14	1.17	2.39	2.44	0.4	3.48	12.73	5.99		
mil	max	405	112	66	35	183	612	54	110	104	24	153	517	252	150 typ.	47 58° ref.
	typ	401	108	58	31	175	604	50	102	100	20	145	509	244		
	min	397	104	50	28	167	596	46	94	92	16	137	501	236		

Marking Diagram



YWW: Date Code
Y: Years(0~9)
WW: Week
MBRT30150CD: Product name
(NOTE: The weekly code is based on the actual number of weeks in the calendar year.)



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