



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

: ITO-220AC

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

: Tin plated leads, solderable per J-STD-002 and JESD22-B102

: As marked

($T_a=25$ Unless otherwise specified)

Device marking code			MBR5150F
Repetitive Peak Reverse Voltage	VRRM	V	150
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25$	I_O	A	5
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$	IFSM	A	120
Current Squared Time @1ms $t \leq 8.3ms$ $T_j=25$	I^2t	A ² s	60
Storage Temperature	T_{stg}		-55 ~ +175
Junction Temperature	T_j		-55 ~ +175

$T_a=25$ Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=5.0A	0.85
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM $T_a=25$	

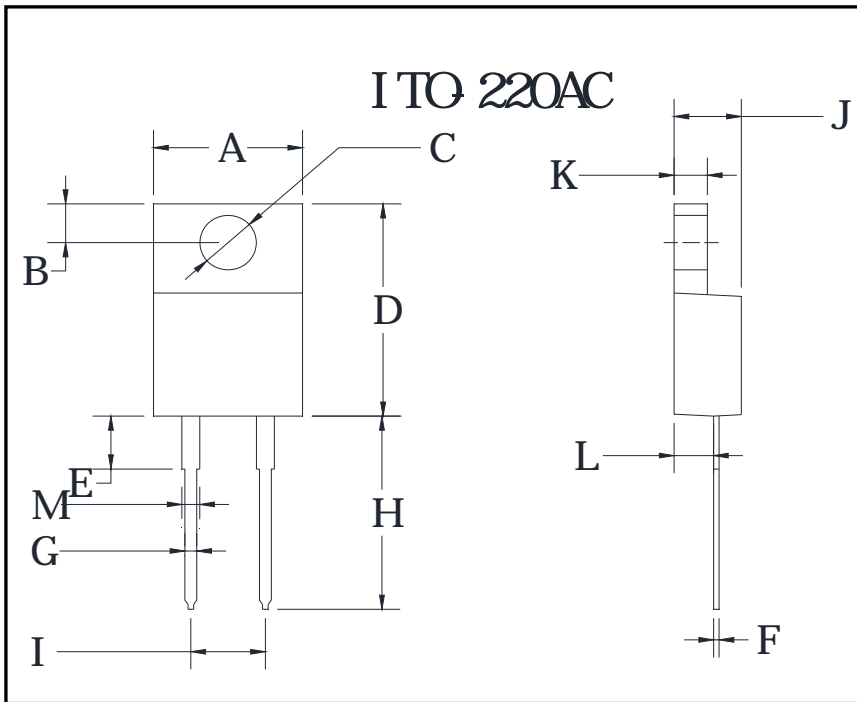


T_a=25 Unless otherwise specified

Thermal Resistance	Between junction and case	R J-C	/W	4.0

(Example)

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Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.5	4.1
F	0.45	0.75
G	0.45	0.75
H	13.35	14.15
I	4.97	5.23
J	4.3	4.8
K	2.5	2.74
L	2.58	2.82
M	1.03	1.43



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