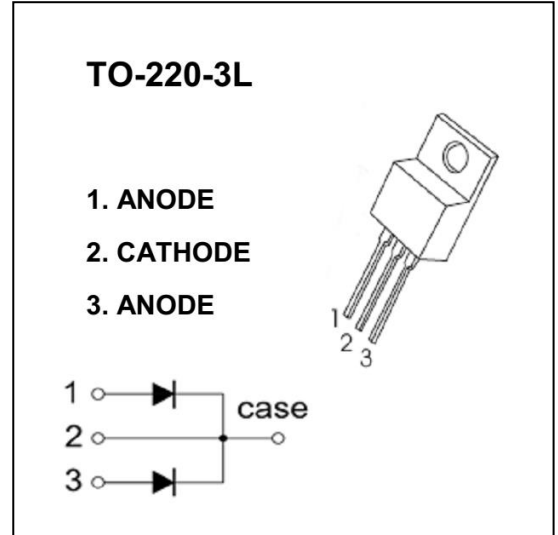




MBR10100LCT

Feature

- Low Power Loss, High Efficiency
- High Current Capability
- Low Reverse Current



ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

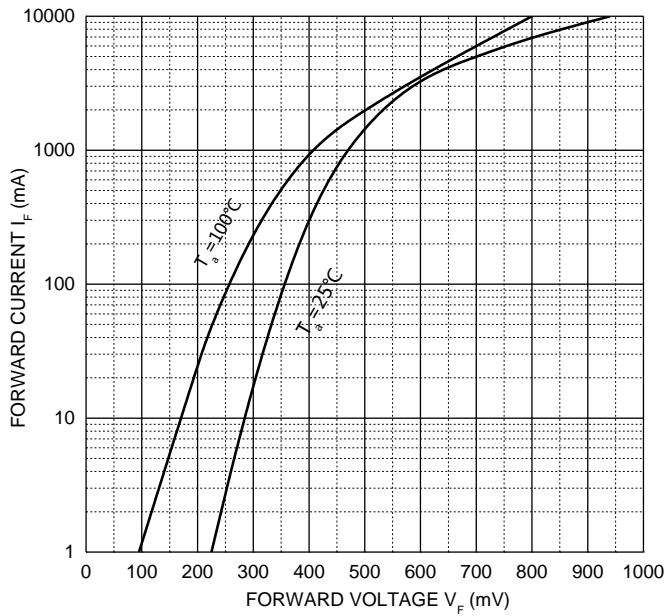
Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	100	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	70	V
Average rectified output current@ $T_c=100^{\circ}\text{C}$	I_o	10	A
Non-Repetitive peak forward surge current 8.3ms half sine wave	IFSM	90	A
Power dissipation	P_D	2.5	W
Thermal resistance from junction to ambient	$R_{\theta JA}$	50	$^{\circ}\text{C}/\text{W}$
Junction temperature	T_j	150	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

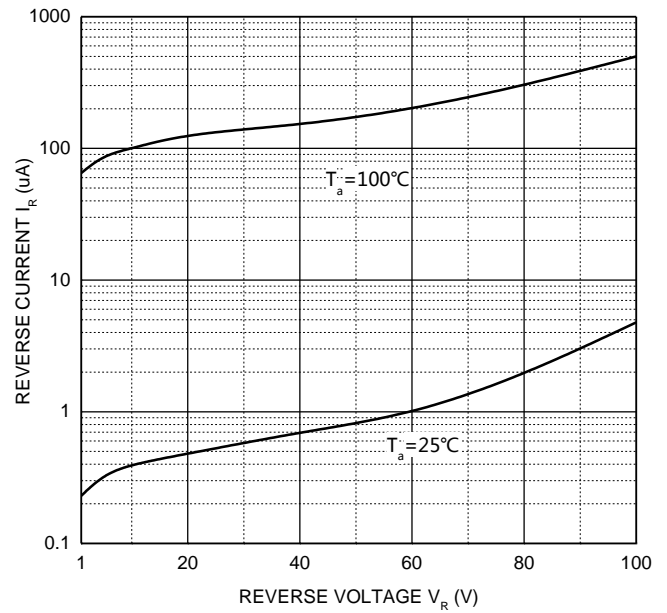
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R = 250\mu\text{A}$	100	110		V
Reverse current	I_R	$V_R = 100\text{V}$		4	50	μA
Forward voltage	$V_{F(1)}$	$I_F = 5\text{A}$		0.68	0.75	V
	$V_{F(2)}$	$I_F = 10\text{A}$		0.94	1.0	V
Typical total capacitance	C_{tot}	$V_R = 4\text{V}, f = 1\text{MHz}$		170		pF

Typical Characteristics

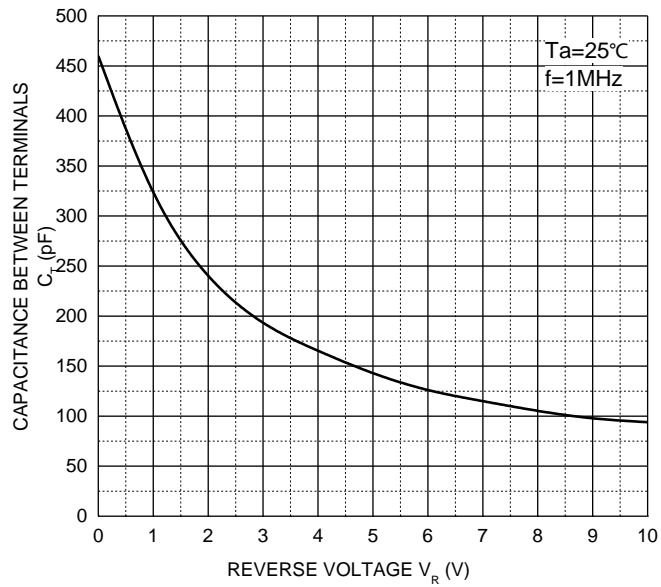
Forward Characteristics



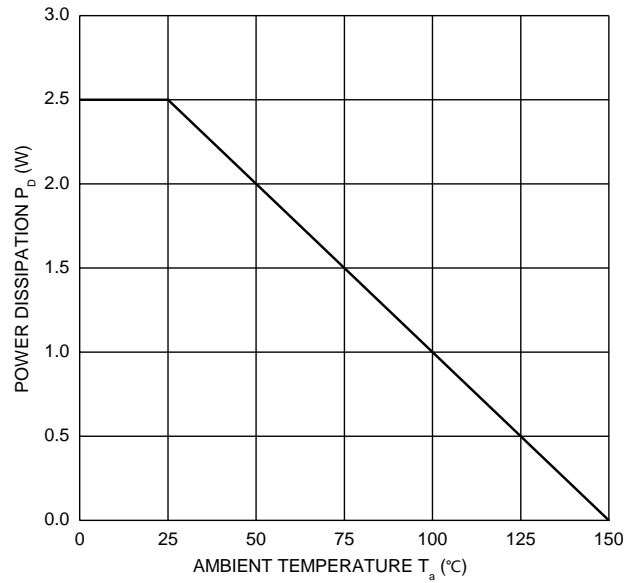
Reverse Characteristics



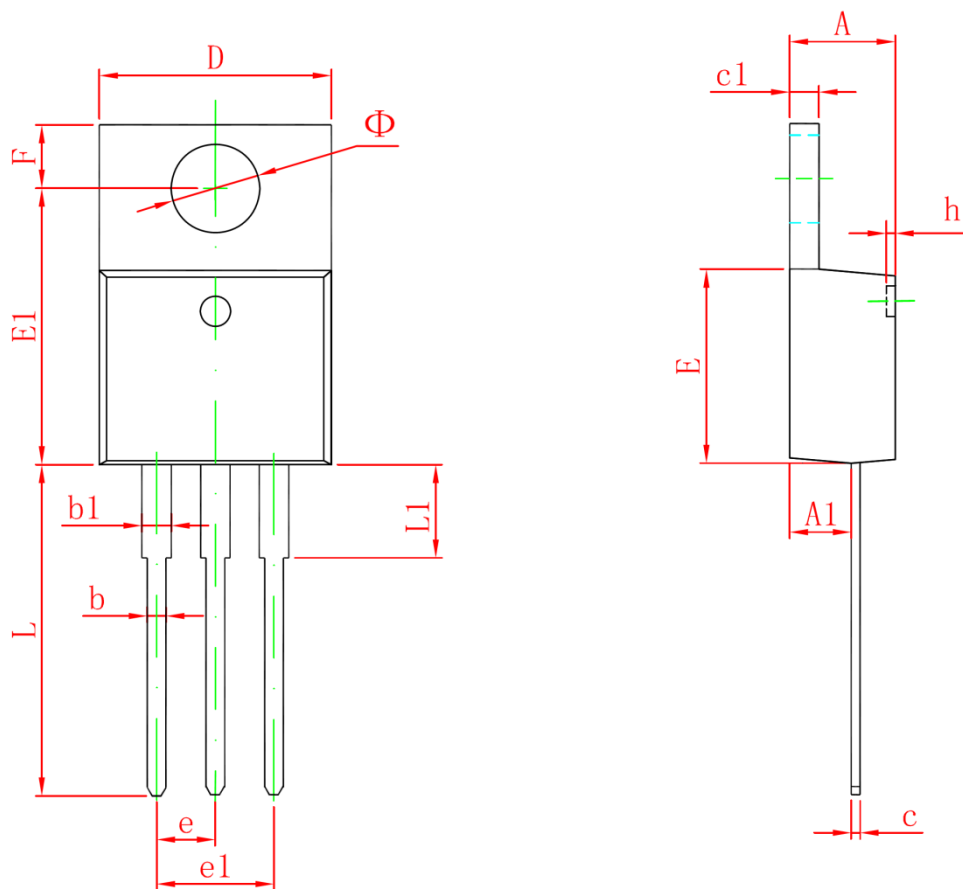
Capacitance Characteristics



Power Derating Curve



TO-220-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.470	4.670	0.176	0.184
A1	2.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.310	0.530	0.012	0.021
c1	1.170	1.370	0.046	0.054
D	10.010	10.310	0.394	0.406
E	8.500	8.900	0.335	0.350
E1	12.060	12.460	0.475	0.491
e	2.540 TYP		0.100 TYP	
e1	4.980	5.180	0.196	0.204
F	2.590	2.890	0.102	0.114
h	0.000	0.300	0.000	0.012
L	13.400	13.800	0.528	0.543
L1	3.560	3.960	0.140	0.156
Φ	3.735	3.935	0.147	0.155

单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)