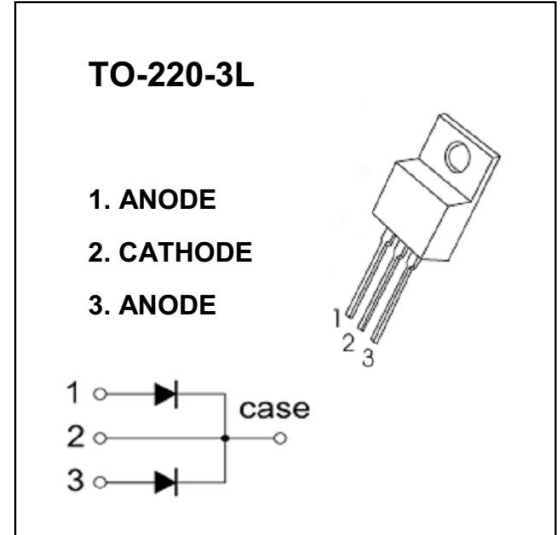




MBR40L60CT

Feature

- Low leakage
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage



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

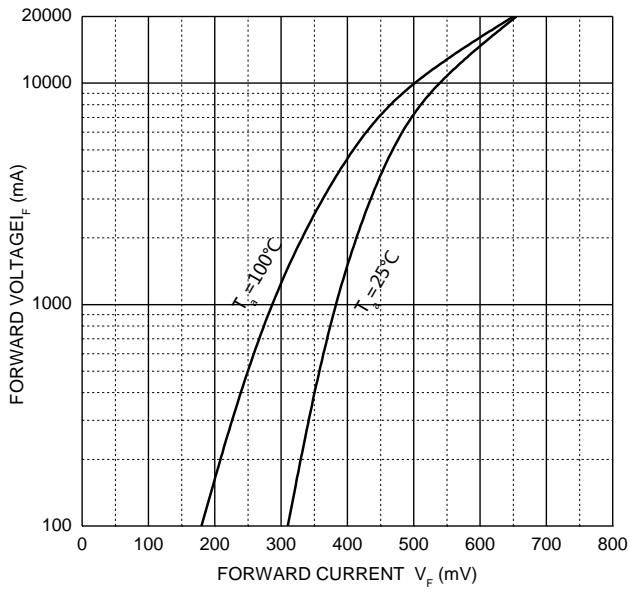
Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	60	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	42	V
Average rectified output current@ $T_c=100^\circ\text{C}$	I_O	40	A
Non-Repetitive peak forward surge current 8.3ms half sine wave	IFSM	300	A
Power dissipation	P_D	2	W
Thermal resistance from junction to ambient	$R_{\theta JA}$	50	$^\circ\text{C/W}$
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55~+125	$^\circ\text{C}$

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

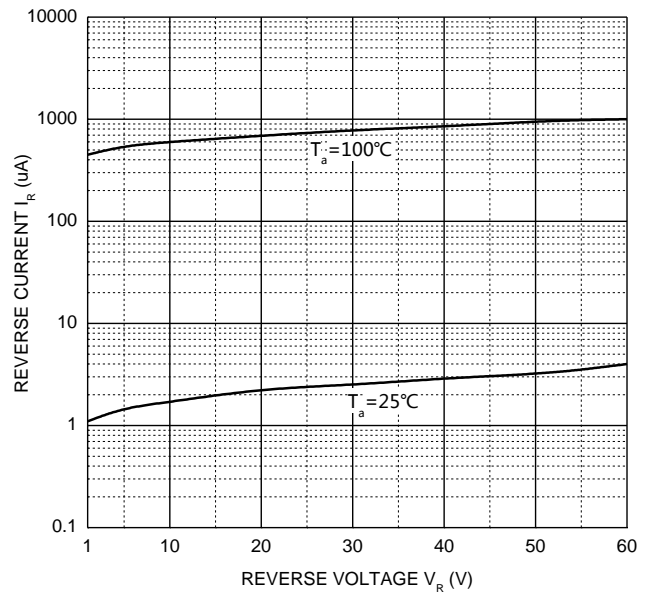
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R = 250\mu\text{A}$	60	70		V
Reverse current	I_R	$V_R = 60\text{V}$		4	30	μA
Forward voltage	V_F	$I_F=5\text{A}$		0.45	0.50	V
		$I_F=10\text{A}$		0.51	0.55	V
		$I_F=20\text{A}$		0.62	0.68	V
Typical total capacitance	C_{tot}	$V_R=4\text{V}, f=1\text{MHz}$		1100		pF

Typical Characteristics

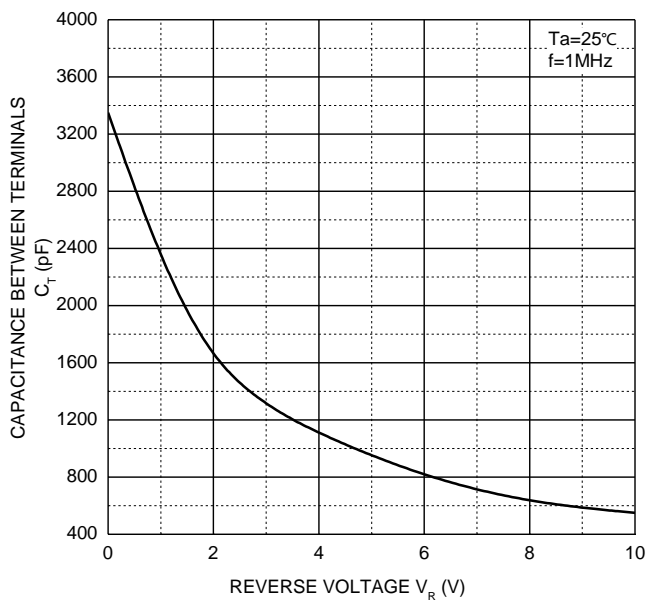
Forward Characteristics



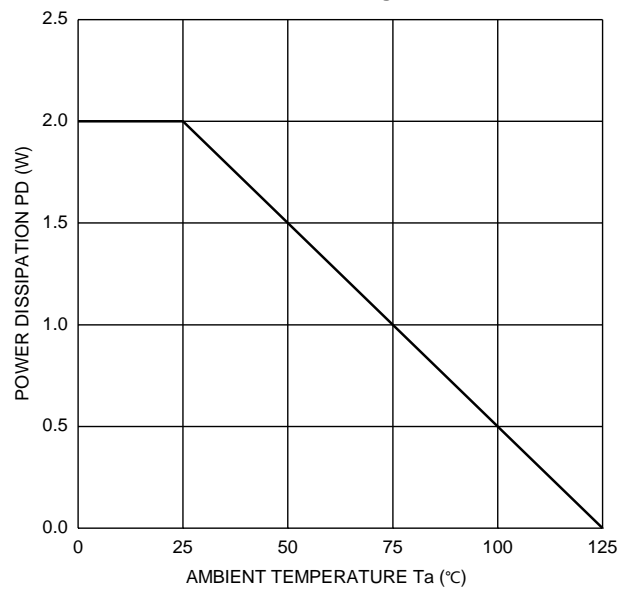
Reverse Characteristics



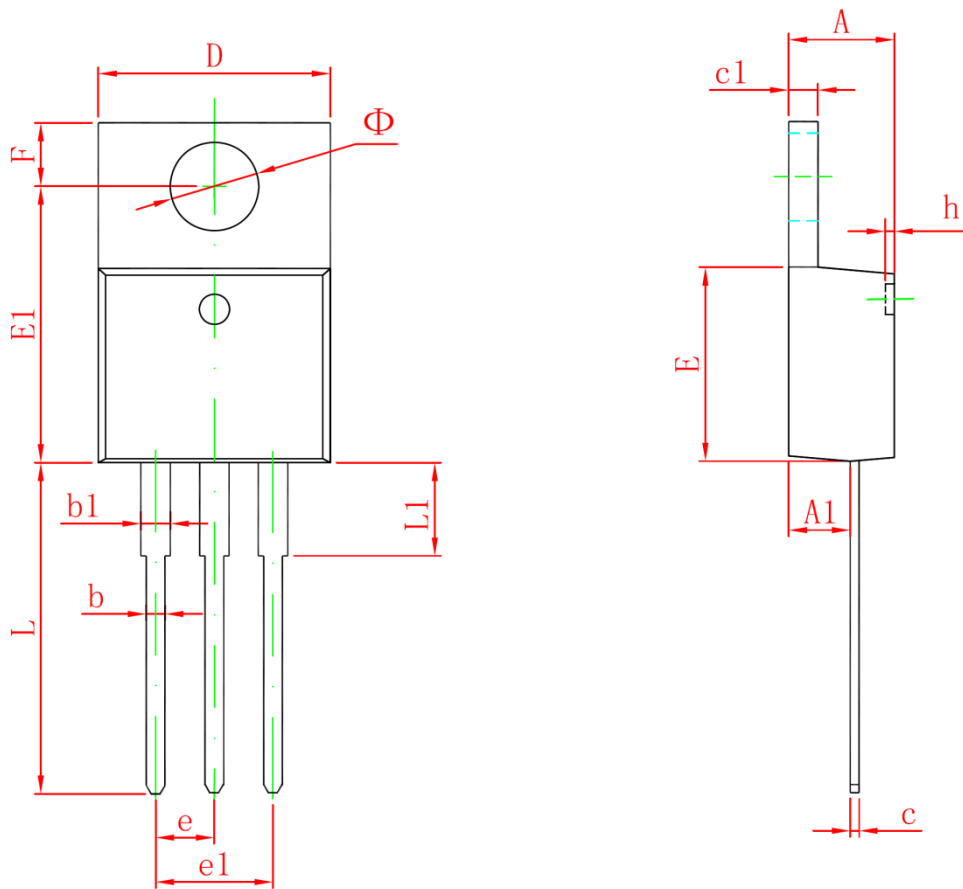
Capacitance Characteristics



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\(格瑞宝\)](#)