MBR1040CT - MBR10200CT

10A 高电压肖特基势垒二极管系列

产品特性

★半桥整流、共阴结构
★多层金-半硅势垒结构，多数载流子导电
★较低的漏电流和正向电压
★很好的高温特性
★有过压保护，可靠性高
★环保（RoHS）产品

主要用途

★低压高频开关电源
★低压高频逆变电路
★低压续流电路和保护电路

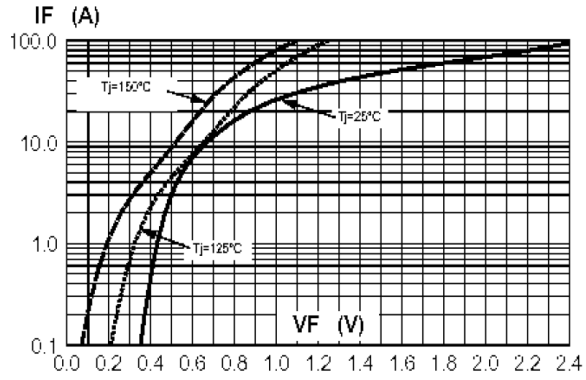
产品参数

产品特性	符号	MBR 1040CT	MBR 1060CT	MBR 10100CT	MBR 10150CT	MBR 10200CT	单位
最大反向阻断电压	VRRM VRWM	40	60	100	150	200	V
平均输出电流 Tc = 100 ℃	IO	10					A
正向最大不重复浪涌电流 8.3ms 半波正弦波 (JEDEC Method)	IFSM	80					A
正向压降 @ IF = 5.0A, Tc = 125 C	VFM	0.59	0.68	0.78	0.83	0.85	V
@ IF = 5.0A, Tc = 25 C		0.64	0.73	0.83	0.86	0.89	
@ IF = 10A, Tc = 125 C		0.74	0.77	0.8	0.91	0.92	
@ IF = 10A, Tc = 25 C		0.85	0.95	0.97	0.99	0.99	
最大反向漏电流 @ Tc = 25 C	IRM	0.02					mA
额定直流电压 @ Tc = 125 C		10					
结间电容	Cj	300					pF
电压转变速率	dV/dt	10,000					V/ s
工作储存温度范围	Tj, TSTG	+170;-40 TO +170					℃

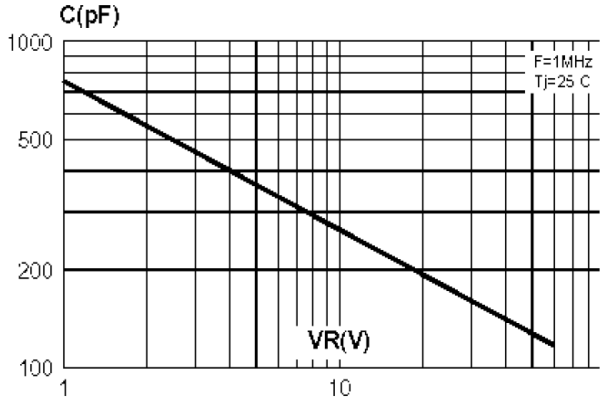
MBR1040CT - MBR10100CT

10A 高电压肖特基势垒二极管系列

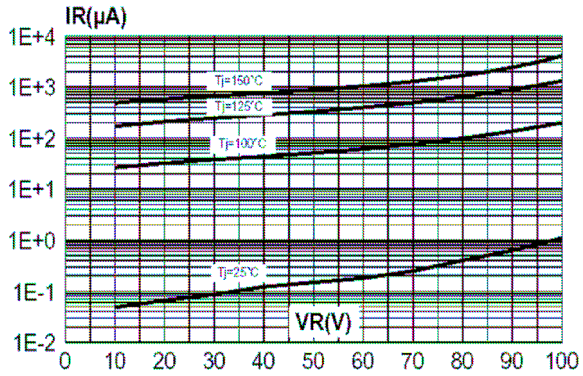
1.正向压降对正向电流曲线



2.结电容对反向电压曲线



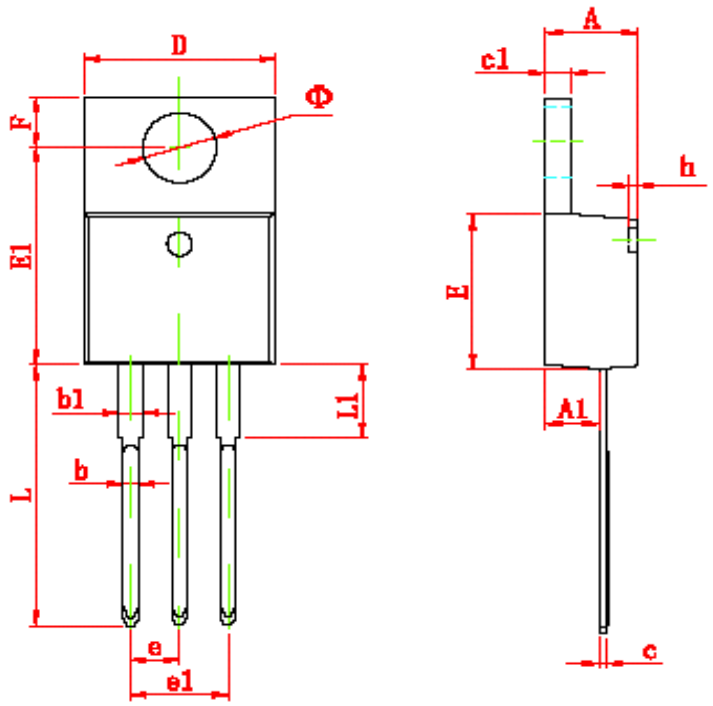
3.反向漏电对反向电压曲线



MBR1040CT - MBR10100CT

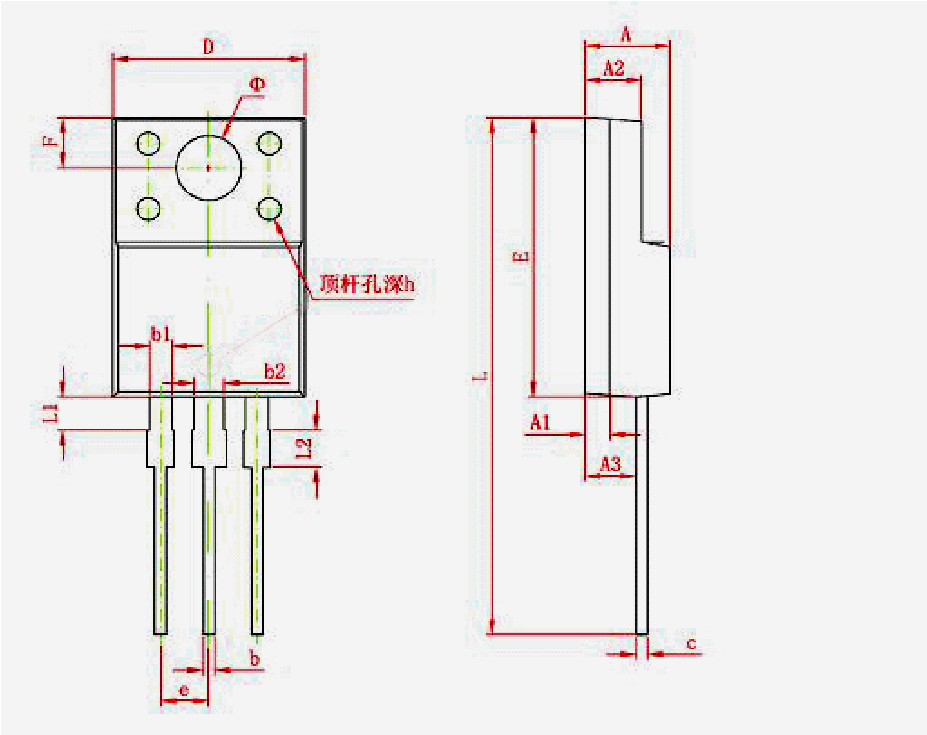
10A 高电压肖特基势垒二极管系列

TO-220AB



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

TO-220F



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.300	4.700	0.169	0.185
A1	1.300 REF		0.051 REF	
A2	2.800	3.200	0.110	0.126
A3	2.500	2.900	0.098	0.114
b	0.500	0.750	0.020	0.030
b1	1.100	1.350	0.043	0.053
b2	1.500	1.750	0.059	0.069
c	0.500	0.750	0.020	0.030
D	9.960	10.360	0.392	0.408
E	14.800	15.200	0.583	0.598
e	2.540 TYP		0.100 TYP	
F	2.700 REF		0.106 REF	
Φ	3.500 REF		0.138 REF	
h	0.000	0.300	0.000	0.012
L	28.000	28.400	1.102	1.118
L1	1.700	1.900	0.067	0.075
L2	1.900	2.100	0.075	0.083