

肖特基整流器

以高熔點金屬作為壁障而構成肖特基，工作溫度可高達175℃，特別適合低電壓、高頻整流器、交換式電源、充電器、DC/DC換能器及一些極性保護電路

特性

- * 低順向電壓
- * 低開關噪音
- * 高電流流量
- * 安全逆向崩潰保護
- * 強化保護環結構
- * 低功率損失及高效能
- * 175℃結點溫度
- * 低貯存電荷量
- * 94V-O等級塑封材質



* 符合 EU RoHs 2002/95/EC 無鉛認證

最大額定值

電性特性	符號	MBR30100CT	單位
反向重複峰值電壓 反向工作電壓 直流反向電壓	V_{RRM} V_{RWM} V_R	100	V
平均反向電壓	$V_{R(RMS)}$	70	V
平均整流輸出電流 (單個) 整體輸出 (額定電壓, $T_C=100^\circ\text{C}$)	$I_{F(AV)}$	15 30	A
重複峰值順向電流 (額定電壓, 方波, 20kHz)	I_{FM}	30	A
非重複湧浪電流 (單相, 60Hz)	I_{FSM}	250	A
通電操作狀態下、芯片界面可工作溫度範圍 貯存環境溫度(1)	T_J T_{stg}	-65 to +175 20~35 °C、30%~60% RH	°C

(1)保存期：一年

熱阻

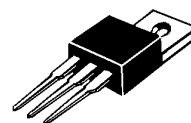
熱阻(結點至外殼)	$R_{\theta jc}$	3.0	°C/w
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電性特性

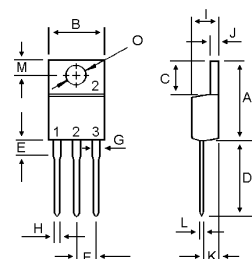
特 性	符號	MBR30100CT	單位
順向連續峰值電壓 (單個) ($I_F=15\text{ Amp } T_C=25^\circ\text{C}$) ($I_F=15\text{ Amp } T_C=125^\circ\text{C}$)	V_F	0.85 0.78	V
反向連續峰值電流 (額定值電壓, $T_C=25^\circ\text{C}$) (額定值電壓, $T_C=125^\circ\text{C}$)	I_R	0.01 15	mA

肖特基二極管

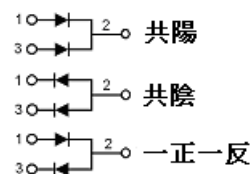
30 AMPERES
100 VOLTS



TO-220AB



DIM	MILLIMETERS	
	MIN	MAX
A	14.68	15.32
B	9.78	10.42
C	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
G	1.12	1.36
H	0.72	0.96
I	4.22	4.98
J	1.14	1.38
K	2.20	2.98
L	0.33	0.55
M	2.48	2.98
O	3.70	3.90



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MBR30100CT

FIG-1 順向電流降額曲線

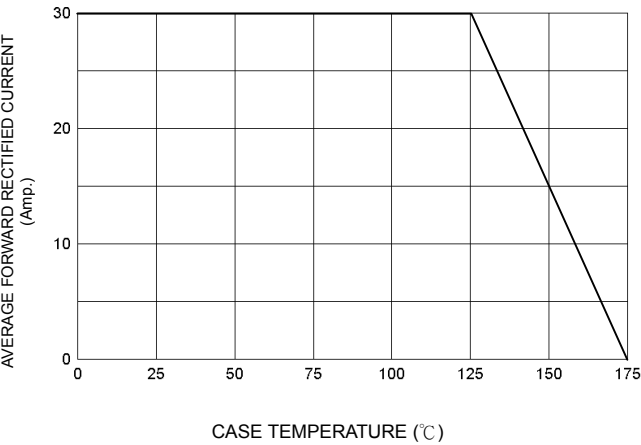


FIG-2 順向電壓曲線(典型值)

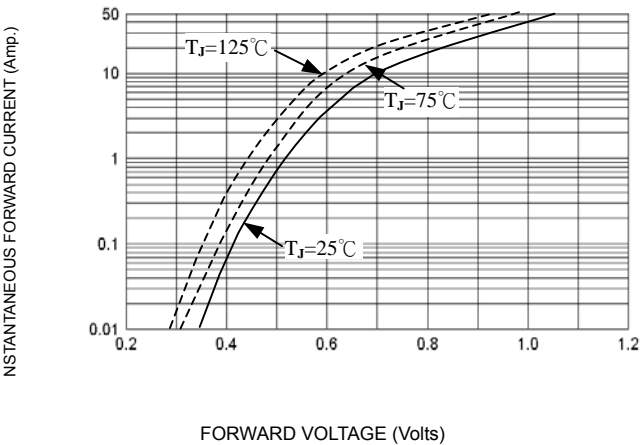


FIG-3 反向電流曲線(典型值)

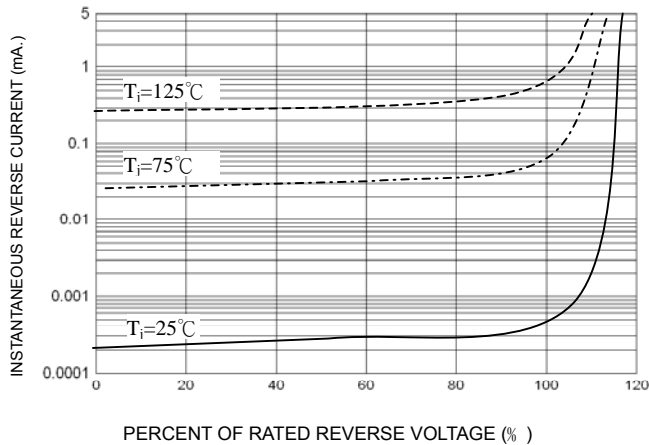


FIG-4 結合電容曲線(典型值)

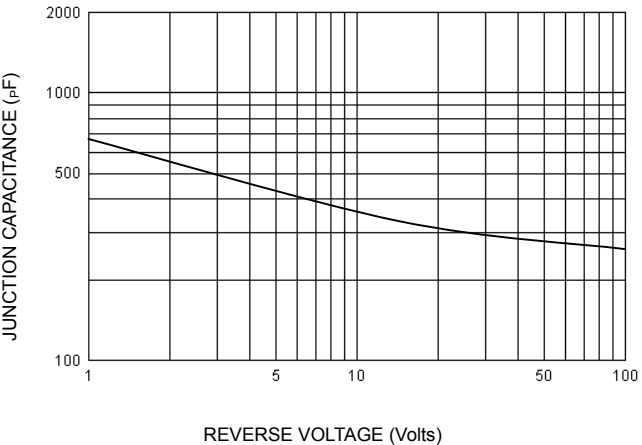


FIG-5 順向峰值湧浪電流曲線

