

■ Productor Character

- Half Bridge Rectified、Common Cathode Structure.
- Multilayer Metal -Silicon Potential Structure.
- Beautiful High Temperature Character.
- Have Over Voltage protect loop, high reliability.
- RoHs Product.

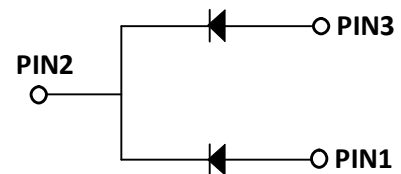
TO-247



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■ Primary Use

- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.



■ Summarize

- MBR60150PT Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

Device Weight :

TO-247AB-6.3g

Absolute Maximum Ratings

Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	VRRM	150	V
*Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	IFAV	60	A
Typical Thermal Resistance (per leg) Package =TO-247AB	RθJc	1.5	°C/W
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	500	A
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Peak Repetitive Reverse Surge Current (2uS-1Khz)	IRRM	3	A
Operating Junction Temperature	TJ	-40- +175	°C
Storage Temperature	TSTG	-40- +175	°C

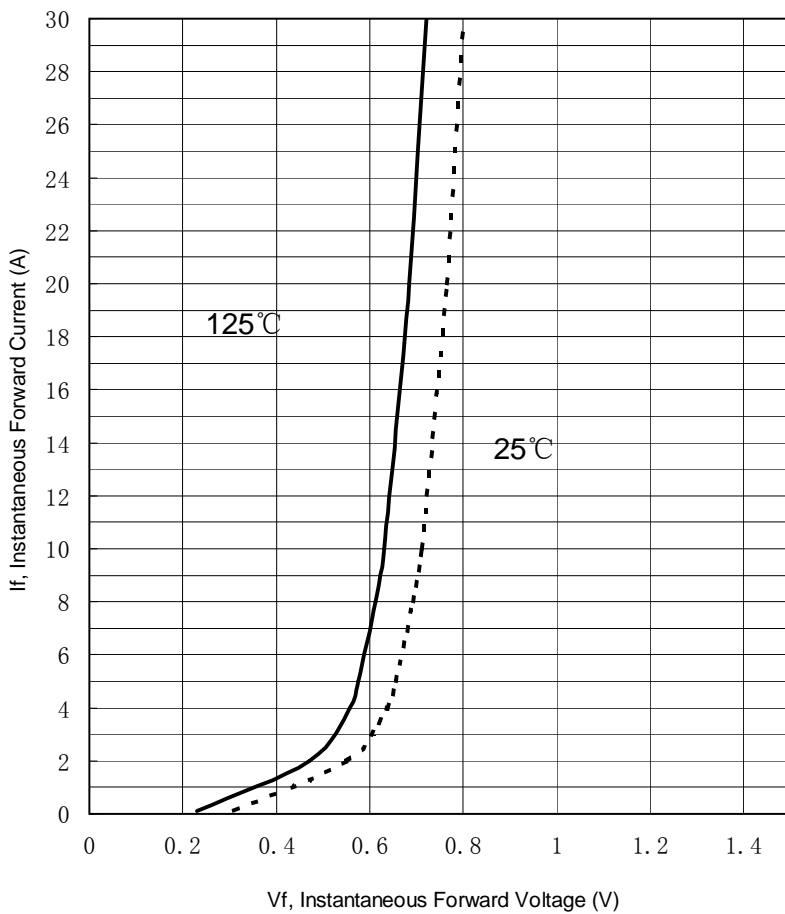
Electricity Character

Item	Test Condition		TYP.	MAX.	Unit
IR	TJ =25°C	VR=VRRM		30	uA
	TJ =125°C			1	mA
VF	TJ =25°C	IF=30A	0.85	0.89	V
	TJ =125°C	IF=30A		0.81	V

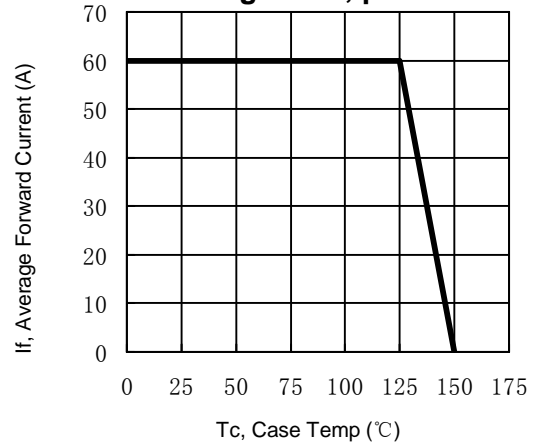
*IF(AV)= 30Ax2

Characteristic Curves

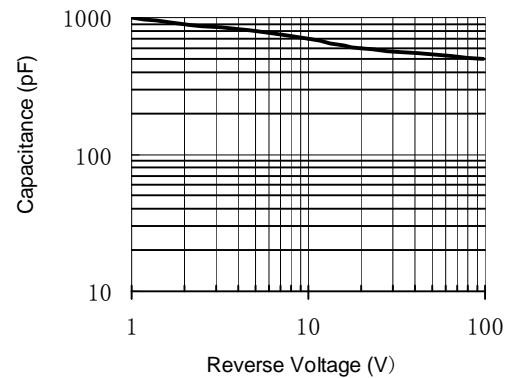
The forward voltage and forward current curve



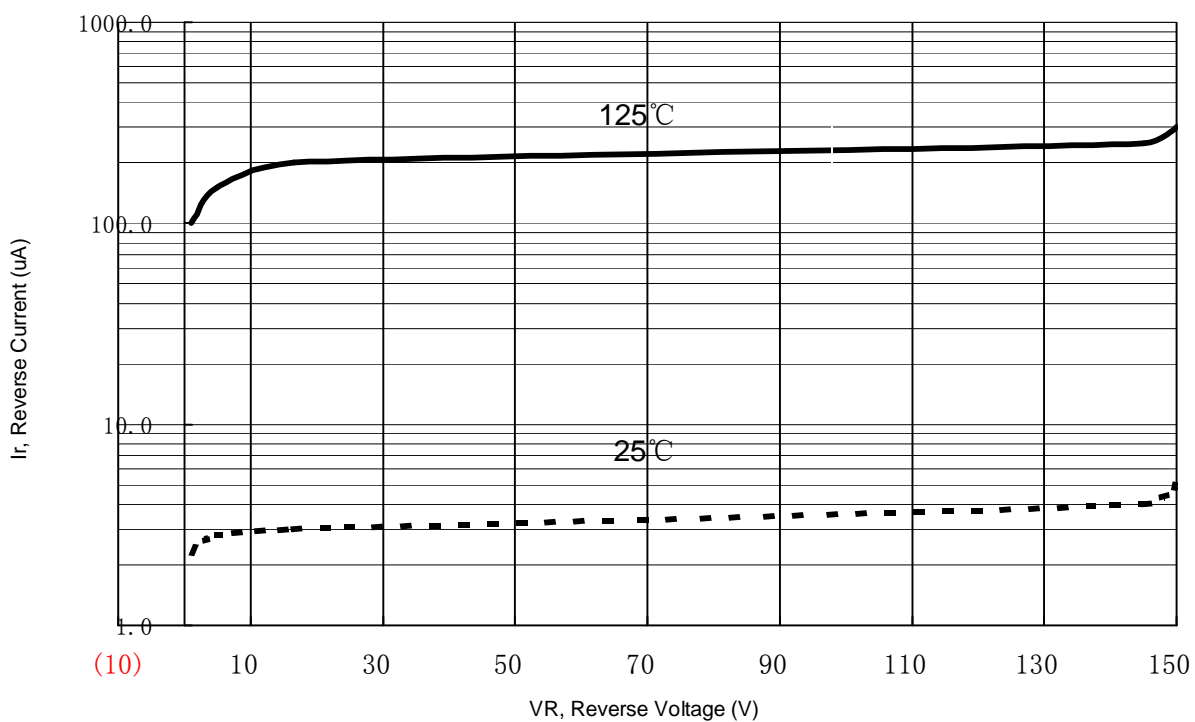
Current derating curve, per element

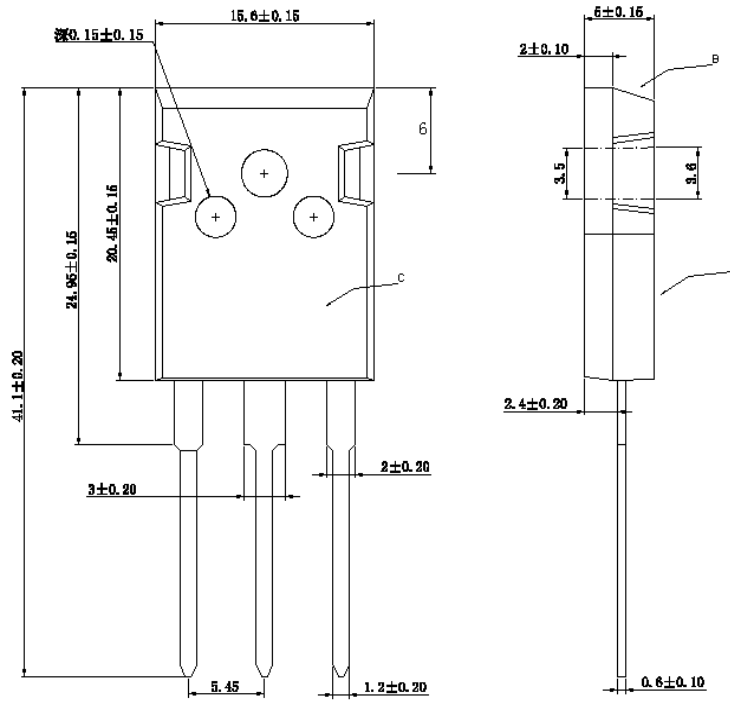


The crunode capacitance curve



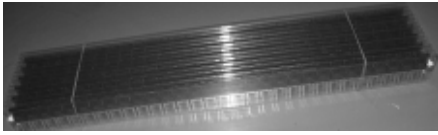
The reverse leak current and the reverse voltage (single-device) curve.



Package Outline Dimensions**TO-247**

Packing Information

Part Number	Package	Delivery Mode
MBR60150PT	TO-247AB	30 pieces / tube



Part Number	Quantity	Size (mm)
tube	30 pieces	495*46*8
inner box	360 pieces	510*110*6
outer container	1800 pieces	550*320*14

Marking

- 1.MHCHXM为LOGO。
- 2.MBR60150PT为产品型号。
- 3.XXXX代表日期码，第一码表示公元年的最后一码，第二码表示生产时当月码（A,B,C...为一月，二月，三月...），第三，四码表示大量生产时批次码例如:2013年第一月生产的，D/C为3AXX。

Label

内盒标签（尺寸：125*32mm）格式：



一维条码类型：CODE128； 二维条码类型：QR CODE

PART NO: 产品型号；

DATE CODE: 产品周号；

QTY: 实物数量；

PACKAGE: 产品封装形式；

BOX NO: 箱号（产品追溯码），每盒号唯一与系统生产批号相关联。

二维码内容, 产品型号/产品周号/数量/箱号,

例如: XXXXXXXX/3J43/1000/20130615001016

外箱标签（尺寸：75*64mm）格式：

PART NO: 产品型号；

DATE: 产品包装日期；

QTY: 产品数量。



注意事项

- 1) 凡本公司出厂的产品，均符合相应规格书的电参数和外形尺寸要求；对于客户有特殊要求的产品, 双方应签订相关技术协议。
- 2) 在安装时, 要注意减少机械应力的产生, 安装扭矩推荐值0.3牛/米, 防止由此引起的产品失效。
- 3) 避免靠近发热元件; 焊接上锡时要注意控制温度和时间, 焊接温度小于260℃, 10S。
- 4) 产品储存需注温度与湿度的控制, 一般情况下, 温度在5℃-25℃, 湿度50%条件下, 可存放一年, 过保存期后, 使用前需重新测试。
- 5) 静电及高压会对产品产生损坏, 使用和检验产品时, 佩戴防静电腕带或手套, 设备工具可靠接地。