



High-Voltage Schottky Diodes

MBR3045 PT

Product 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.

Primary Use

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

Summarize

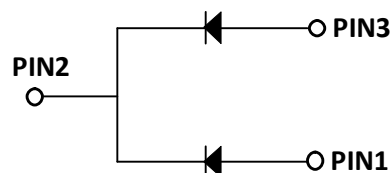
- MBR3045PT Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply

Device Weight :

TO-247



123



Absolute Maximum Ratings

Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	VRRM	45	V
*Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	IFAV	30	A
Typical Thermal Resistance (per leg) Package =TO-220AB/TO-263 Package =ITO-220AB	RθJc	2	°C/W
		4	°C/W
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	200	A
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Peak Repetitive Reverse Surge Current (2uS-1Khz)	IRRM	1	A
Operating Junction Temperature	TJ	-40- +150	°C
Storage Temperature	TSTG	-40- +150	°C

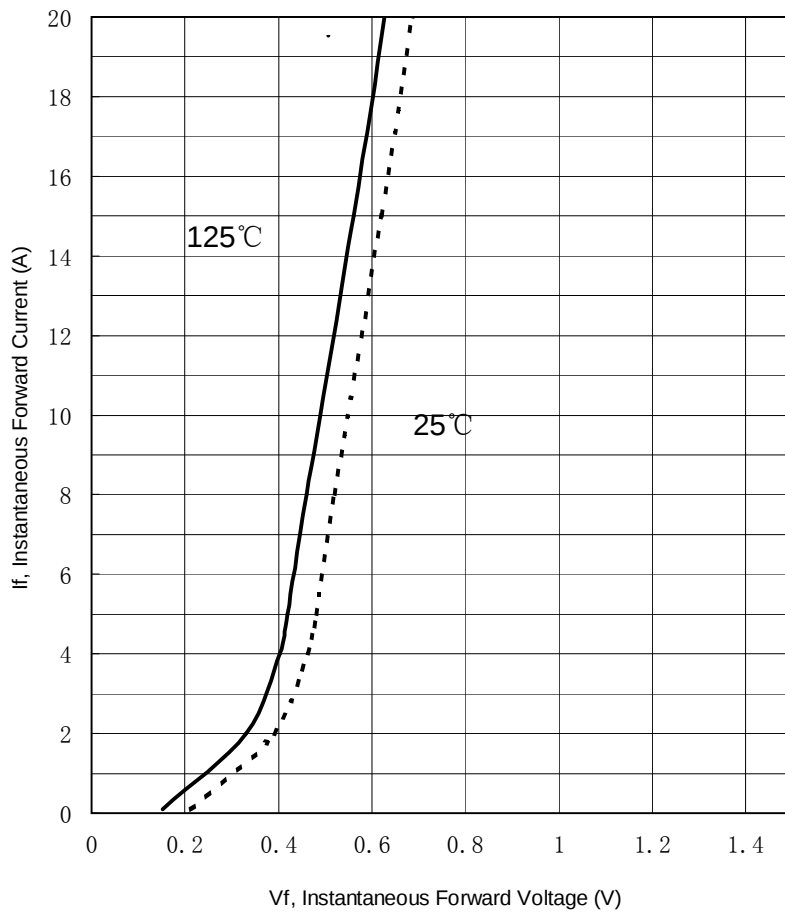
Electricity Character

Item	Test Condition		TYP.	MAX.	Unit
IR	TJ =25°C	VR=VRRM		20	uA
	TJ =125°C			2	mA
VF	TJ =25°C	IF=15A	0.65	0.70	V
	TJ =125°C	IF=15A		0.58	V

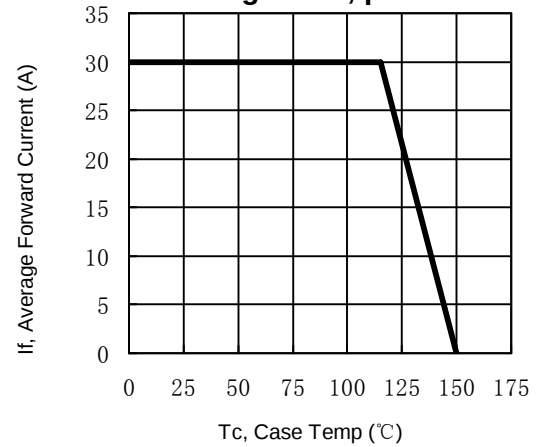
*IF(AV)= 15A×2

Characteristic Curves

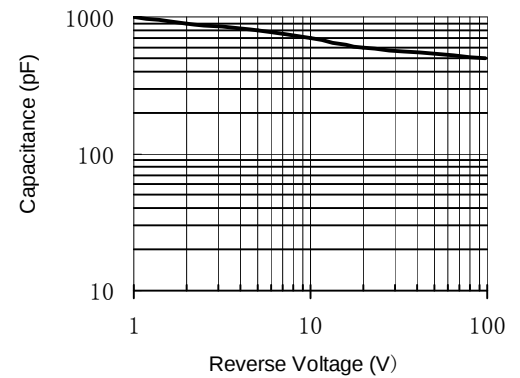
The forward voltage and forward current curve



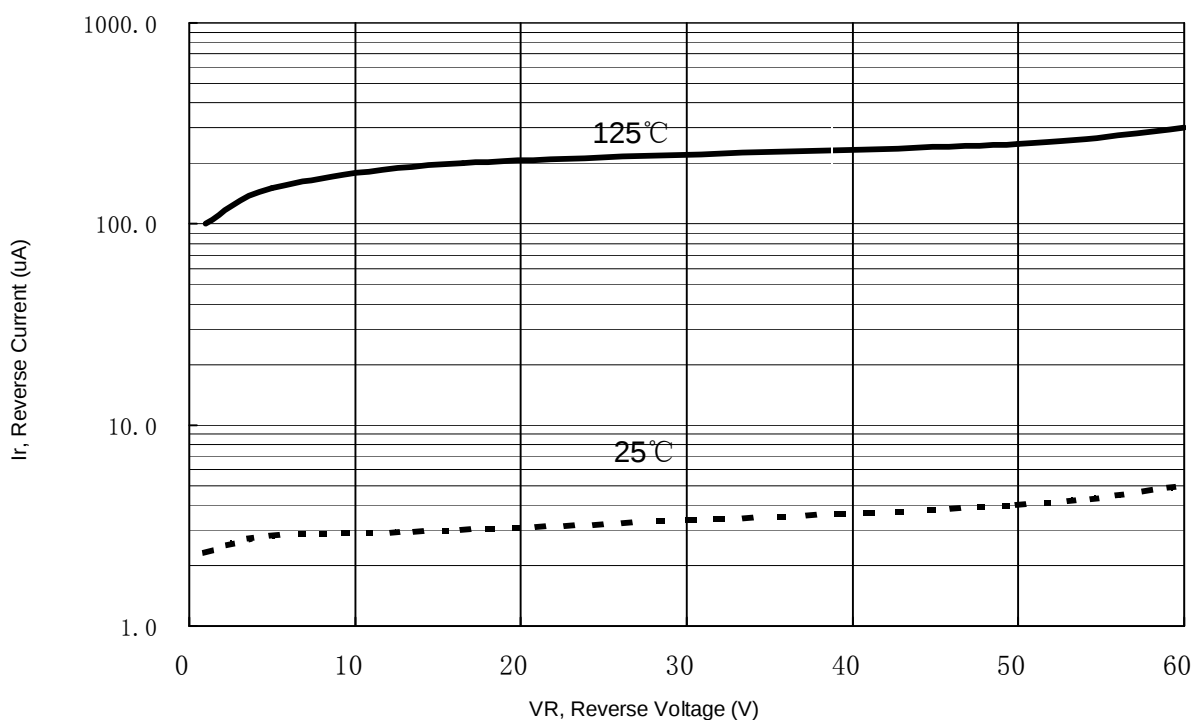
Current derating curve, per element



The junction capacitance curve



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



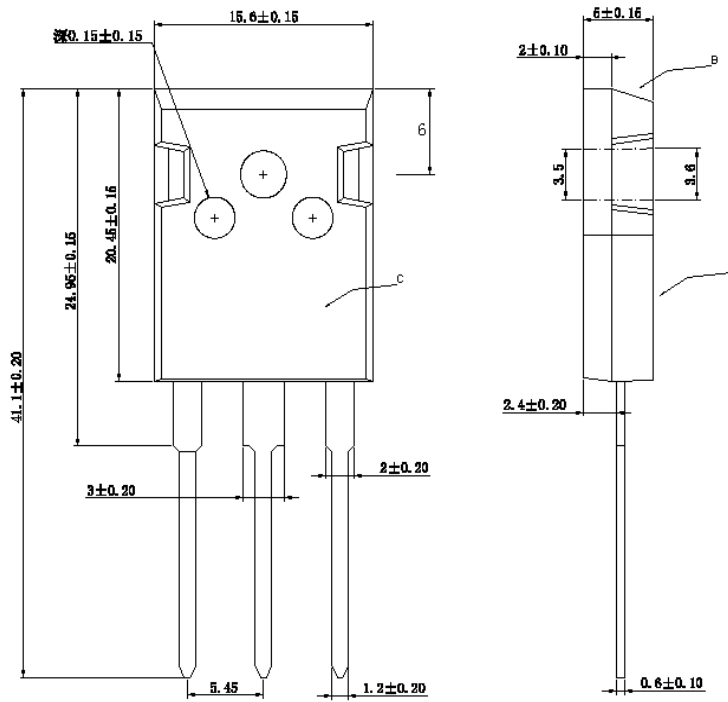


High-Voltage Schottky Diodes

MBR3045 PT

Package Outline Dimensions

TO-247



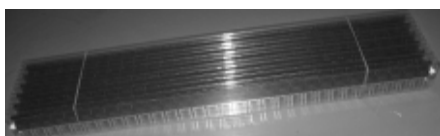


High-Voltage Schottky Diodes

MBR3045 PT

Packing Information

Part Number	Package	Delivery Mode
MBR3045PT	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