MBR6045PT

RoHS COMPLIANT

Schottky Barrier Rectifiers

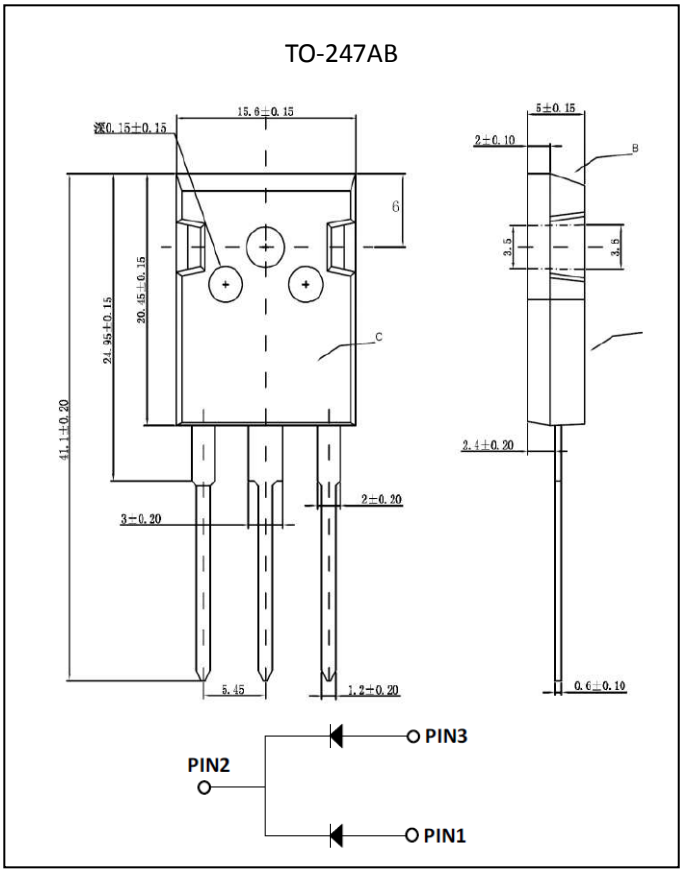
■Features

- Multilayer Metal -Silicon Potential Structure.
- Beautiful High Temperature Character.
- Have Over Voltage protect loop，high reliability.
- RoHs Product.

■Applications

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

■Outline Dimensions



■Marking Information

Type	Package	Mark
MBR6045PT	TO-247AB	MBR6045PT

■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	60	A
Typical Thermal Resistance (per leg Package =TO-247AB	RθJc	0.5	℃/W
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	300	A
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Peak Repetitive Reverse Surge Current (2uS-1Khz)	IRRM	0.5	A
Operating Junction Temperature	TJ	-40- +150	℃
Storage Temperature	TSTG	-40- +150	℃

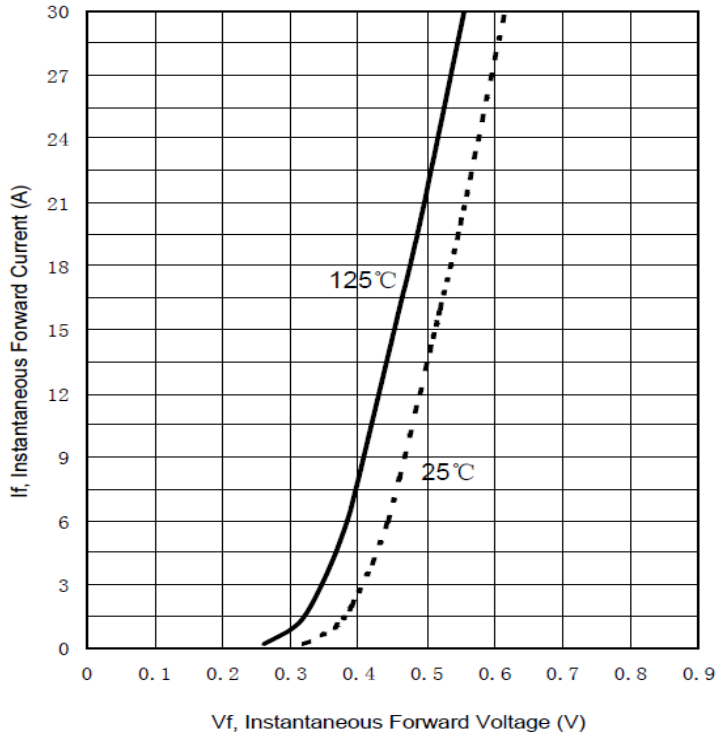
*IF(AV)= 30A×2

■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

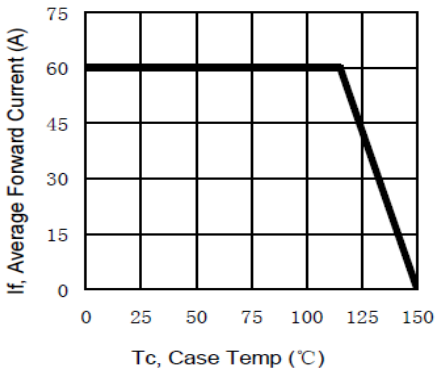
Item	Test Condition		TYP.	MAX	Unit
IR	TJ =25℃	VR=VRRM		0.05	mA
	TJ =125℃			25	mA
VF	TJ =25℃	IF=30A	0.62	0.67	V
	TJ =125℃	IF=30A		0.56	V

■Characteristic Curves

The forward voltage and forward current curve



Current derating curve, perelement



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