



Schottky Barrier Rectifiers

■ Features

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

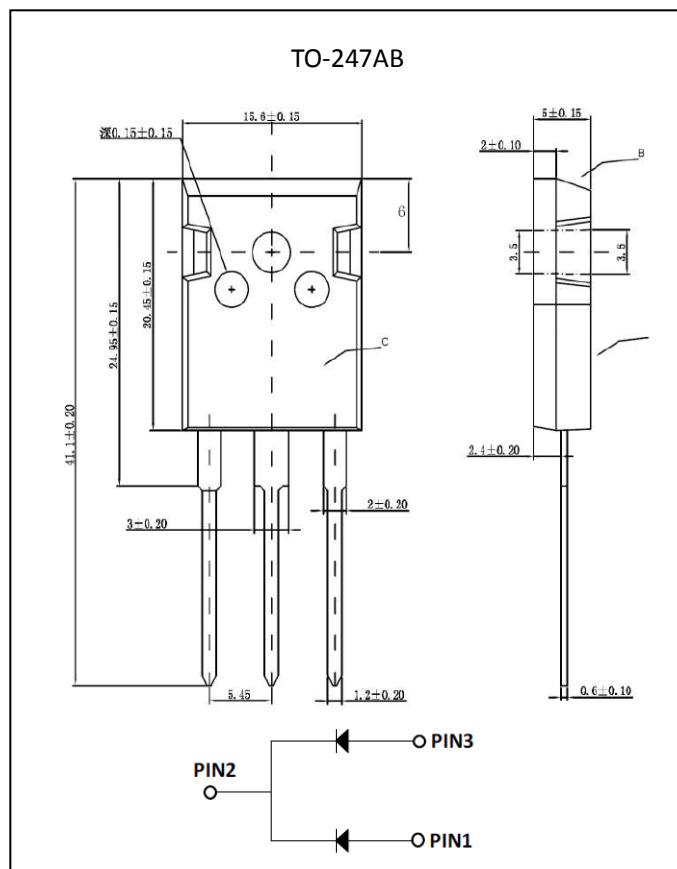
■ Applications

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

■ Marking Information

Type	Package	Mark
MBR6045PT	TO-247AB	MBR6045PT

■ Outline Dimensions



■ 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	°C/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	°C
Storage Temperature	TSTG	-40- +150	°C

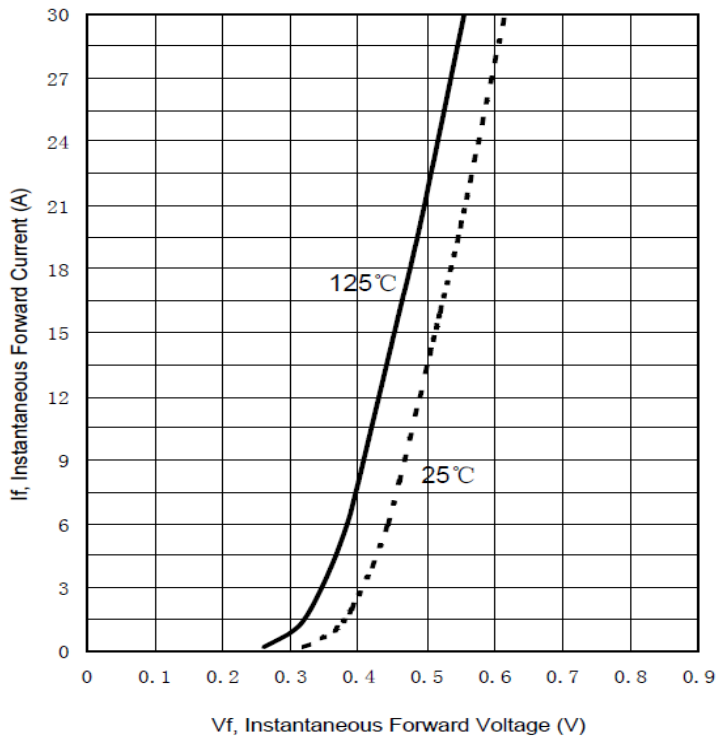
*IF(AV)= 30A×2

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

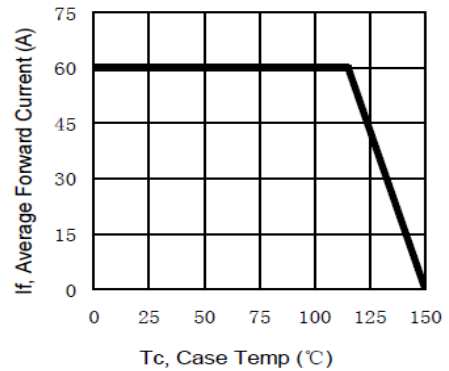
Item	Test Condition		TYP.	MAX	Unit
IR	T _J =25°C	VR=VRRM		0.05	mA
	T _J =125°C			25	mA
VF	T _J =25°C	IF=30A	0.62	0.67	V
	T _J =125°C	IF=30A		0.56	V

■ Characteristic Curves

The forward voltage and forward current curve



Current derating curve, per element



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

