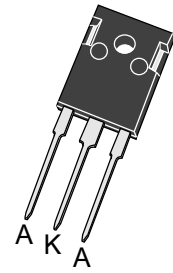


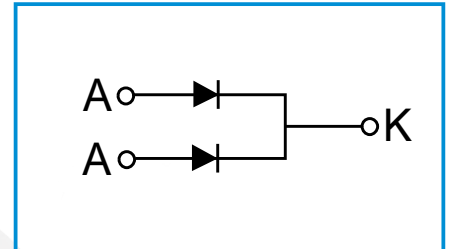
Schottky Barrier Rectifiers

Features

- Multilayer Metal -Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.
- RoHs Product.
- Marking: MBR60200PT



TO-247AB

Functional Diagram


Applications

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

Maximum Ratings (Ta=25 unless otherwise noted)

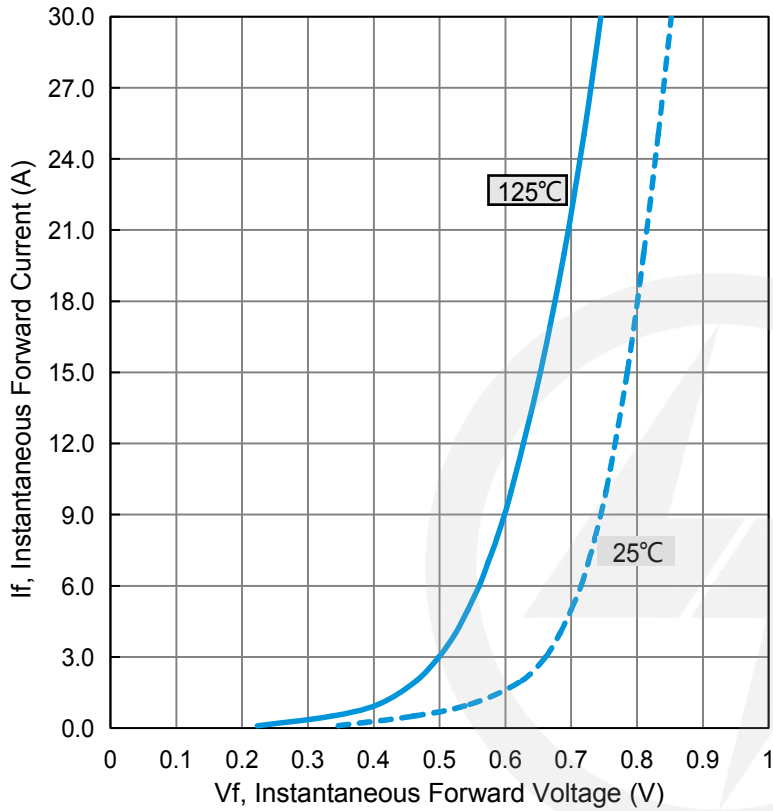
Item	Symbol	Data	Unit
Maxima Repetitive reverse Peak Voltage	V_{RRM}	200	V
*Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I_{FAV}	30x2	A
Forward Peak Surge Current(Rated Load 8.3ms Half sine Wave-According to JEDEC Method)	I_{FSM}	450	A
Operating Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-40~150	°C
Typical Thermal Resistance(per leg)	Package=TO-247AB	$R_{\theta JC}$	0.5 °C/W

Electrical characteristics (Ta=25 unless otherwise specified)

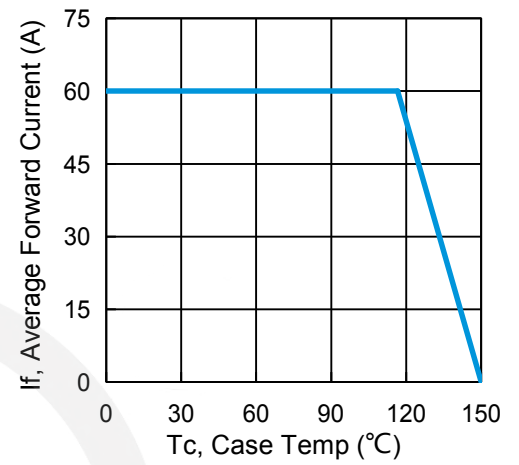
Item	Test Condition		Value(min)	Value(typ)	Value(max)	Unit
V_B	$T_J = 25^\circ\text{C}$	$I_R = 1\text{mA}$	200	---	---	V
I_R	$T_J = 25^\circ\text{C}$	$V_R = 200\text{V}$	---	---	0.02	mA
	$T_J = 125^\circ\text{C}$	$V_R = 200\text{V}$	---	---	10.00	mA
V_F	$T_J = 25^\circ\text{C}$	$I_F = 30\text{A}$	---	0.85	0.9	V
	$T_J = 125^\circ\text{C}$	$(I_{FAV} = 30\text{A} \times 2)$	---	---	0.85	V

Typical Characteristics

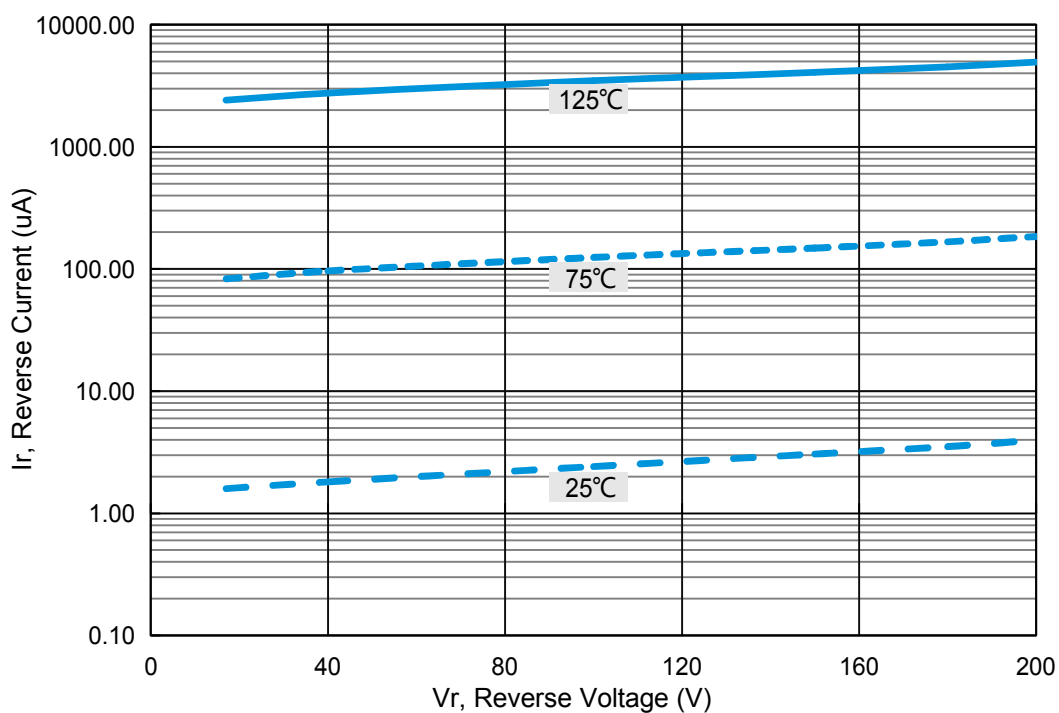
The forward voltage and forward current curve



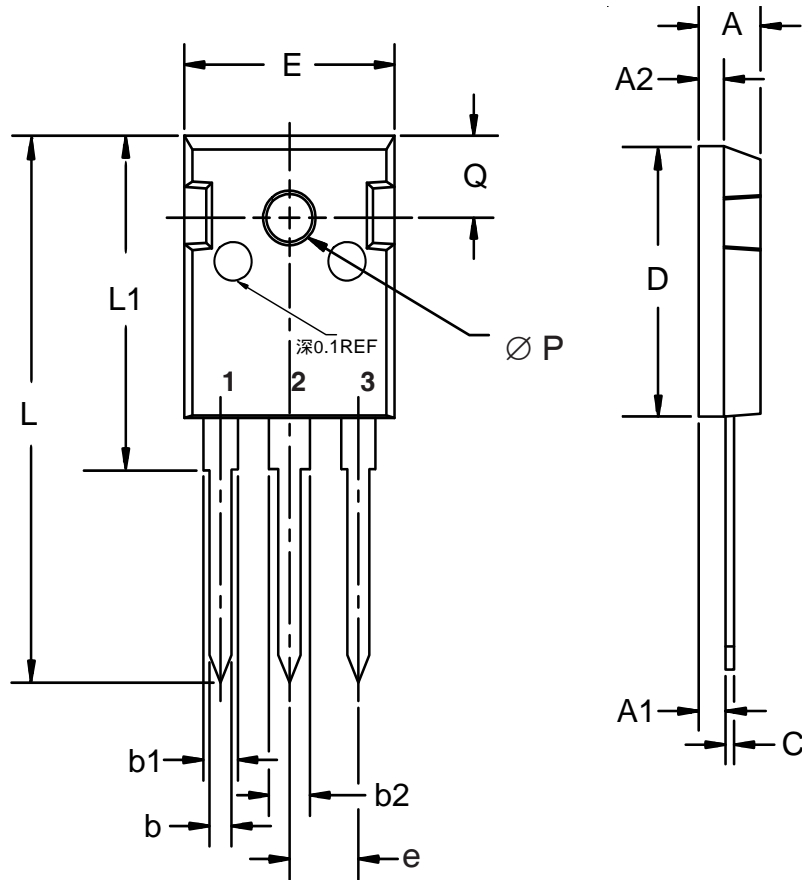
Current derating curve, per element



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



TO-247AB PACKAGE OUTLINE



Dim.	mm.		
	Min.	Typ.	Max.
A	4.70		5.30
A1	2.20		2.60
A2	1.80		2.20
b	0.90		1.50
b1	1.70		2.30
b2	2.70		3.30
c	0.50		0.70
D	20.25		20.65
E	15.30		15.90
e	5.45 REF		
L	40.20		41.80
L1	24.75		25.15
ØP	3.50 REF		
Q	6.00 REF		