

**Product Character**

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

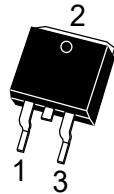
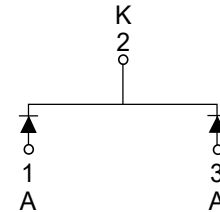
**Primary Use**

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

**Summarize**

- MBR60200CD Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

**Equivalent Circuit**



Package:TO-263-2L  
**MBR60200CD**  
**MBR60200CD-HF**  
 HF=Halogen Free

**Absolute Maximum Ratings**

Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	$V_{RRM}$	200	V
Average Rectified Forward Current (Rated VR=20Khz Square Wave) - 50% duty cycle	$I_{FAV}$	60	A
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	$I_{FSM}$	450×2	A
Operating Junction Temperature	$T_J$	-40~150	°C
Storage Temperature	$T_{STG}$	-40~150	°C
Typical Thermal Resistance(per leg)	Package=TO-263-2L	$R_{\theta JC}$	2 °C/W

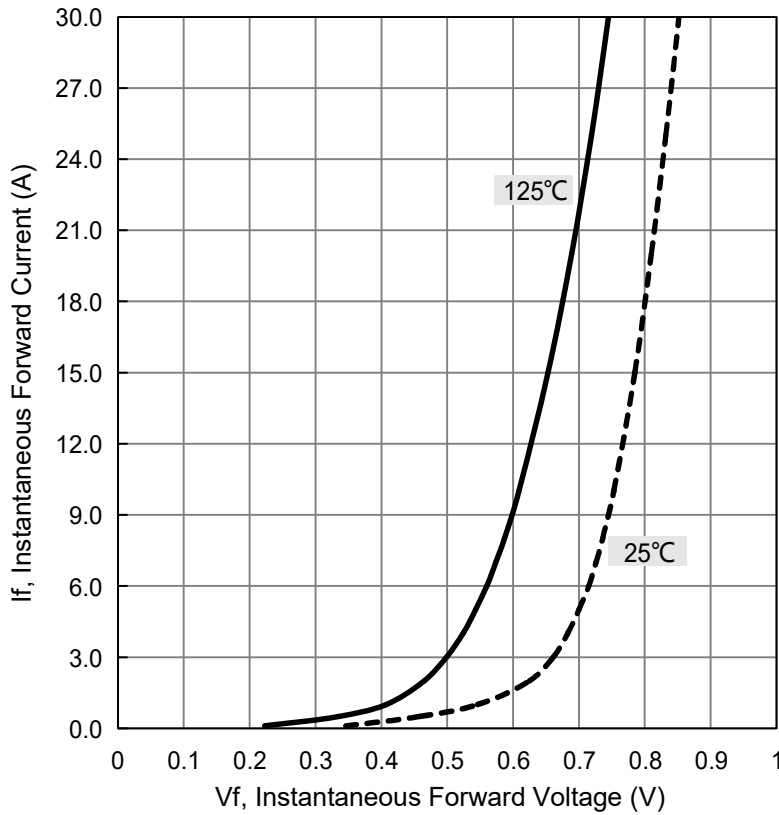
**Electricity Character Per Diode(TJ=25°C unless otherwise specified)**

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

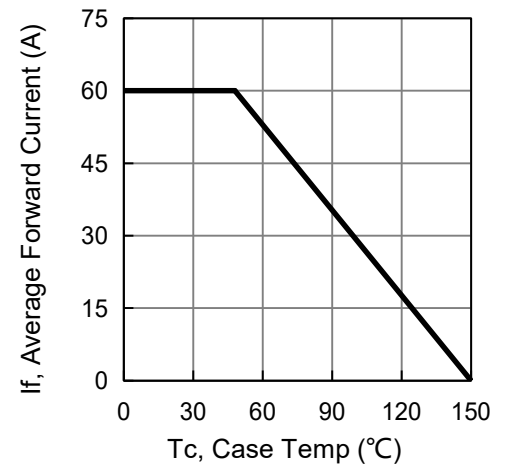


### Characteristic Curves

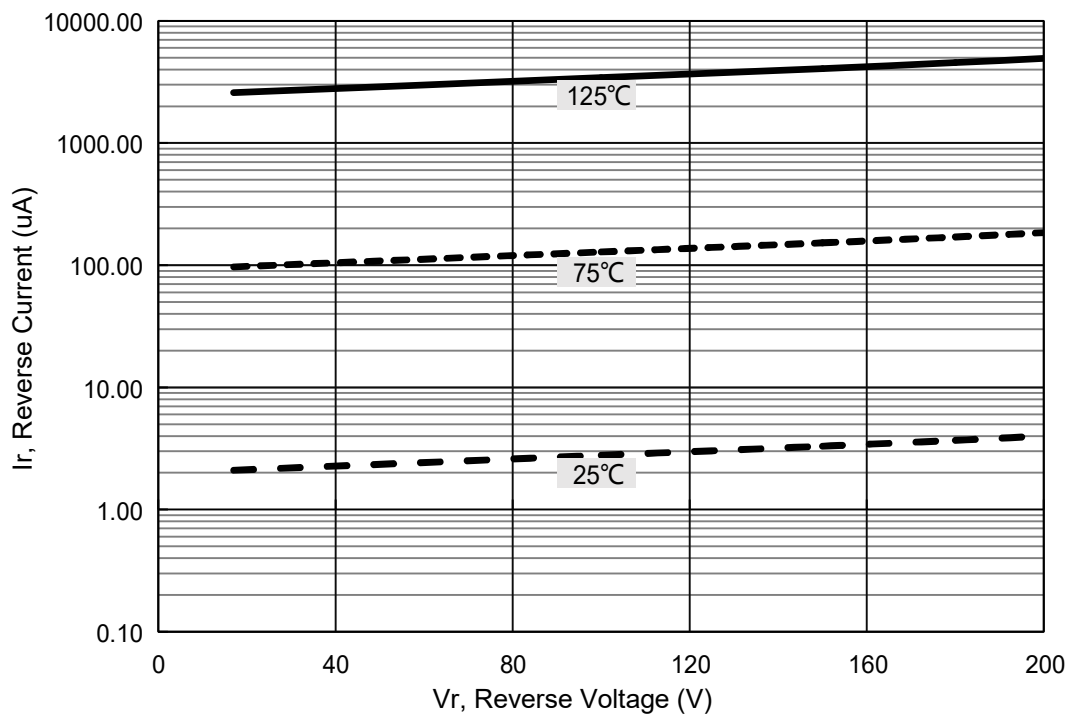
The forward voltage and forward current curve



Current derating curve, per element

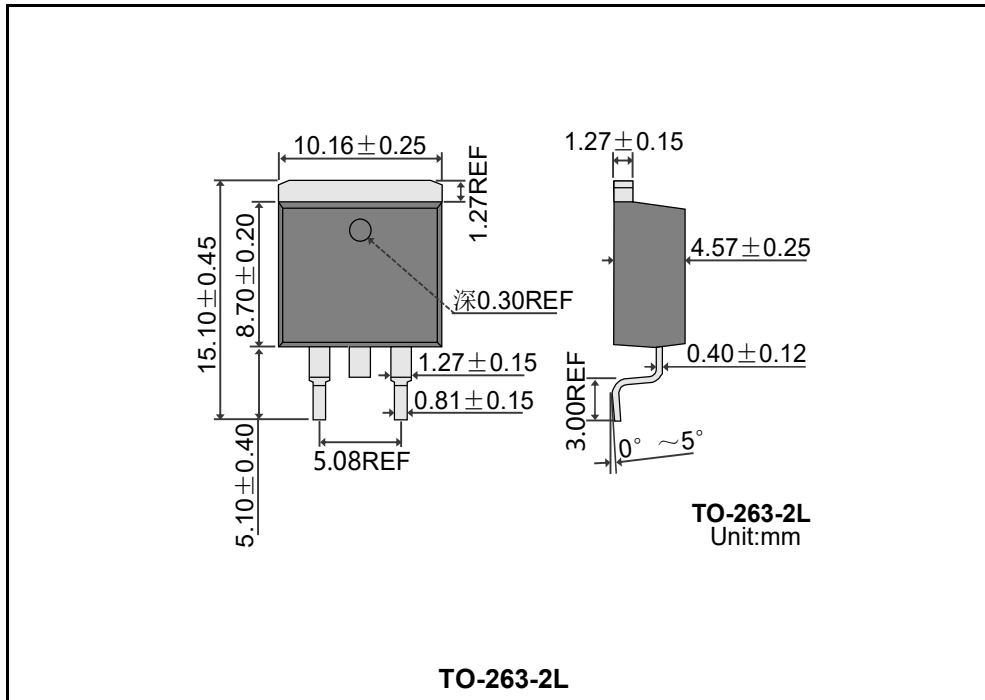


The reverse leak current and the reverse voltage (single-device) curve.

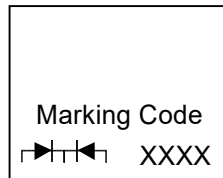




Package Outline Dimensions



Marking Information



“Marking Code”= The Following  
 “XXXX”= Date Code Marking

Package	Marking Code	Part Number
TO-263-2L	MBR60200CD	MBR60200CD
		MBR60200CD-HF

Packing Information

Packaging	Package	Part Number	Quantity	Size
Tube	TO-263-2L	Tube	50 pieces	530*33*7mm
		Inner Box	1000 pieces	558*150*40mm
		Outer Box	5000 pieces	570*235*170mm
Reel	TO-263-2L	Reel	800 pieces	330*30mm
		Inner Box	800 pieces	345*345*35mm
		Outer Box	8000 pieces	375*375*350mm