



MBR3060C-T7

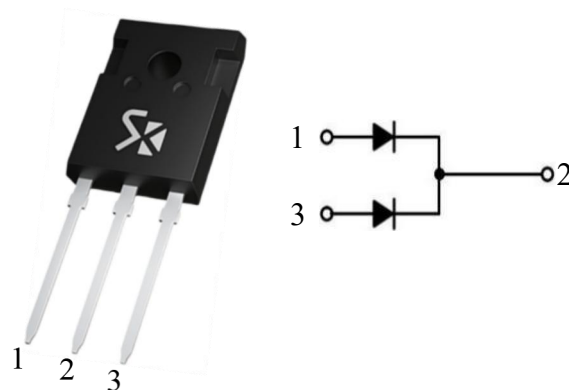
Schottky Barrier Rectifier

Features

- Low forward voltage drop
- High efficiency and low power loss
- High surge current resistance capability

Applications

- Low voltage high frequency Switching power supply
- Low voltage high frequency inverter circuit
- Low voltage rectifier circuits and protection circuit, etc.



TO-247

Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter		Symbol	Limit	Unit
Repetitive Peak Reverse Voltage		V_{RRM}	60	V
Average Forward Current	Per leg	$I_{F(AV)}$	15	A
	Per device		30	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave		I_{FSM}	200	A
Junction Temperature Range		T_J	150	$^{\circ}\text{C}$
Storage Temperature Range		T_{STG}	-40~+150	$^{\circ}\text{C}$

Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test condition	Min	Typ	Max	Units
Reverse Voltage	V_{BR}	$I_R=0.5\text{mA}$	60			V
Reverse Current	I_R	$V_R=60, T_A=25^{\circ}\text{C}$			0.2	mA
		$V_R=60, T_A=125^{\circ}\text{C}$			50	
Forward Voltage Drop	V_F	$I_F=15\text{A}$			0.8	V



Typical Characteristics

Figure 1. Instantaneous Forward Characteristics

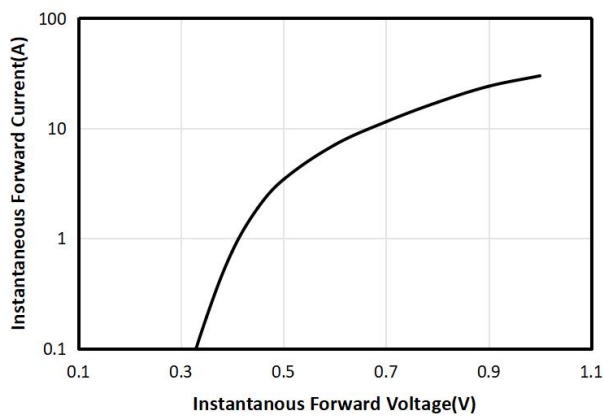


Figure 2. Typical Leakage Current

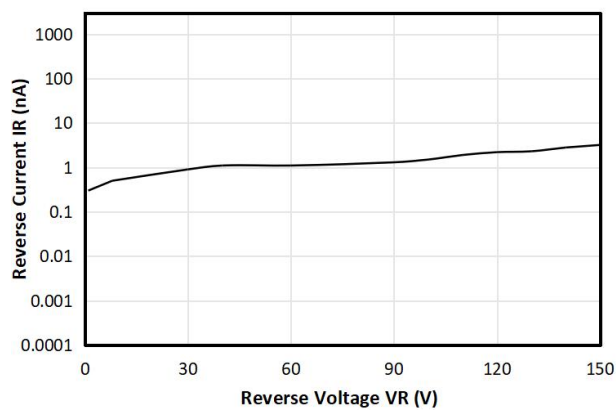
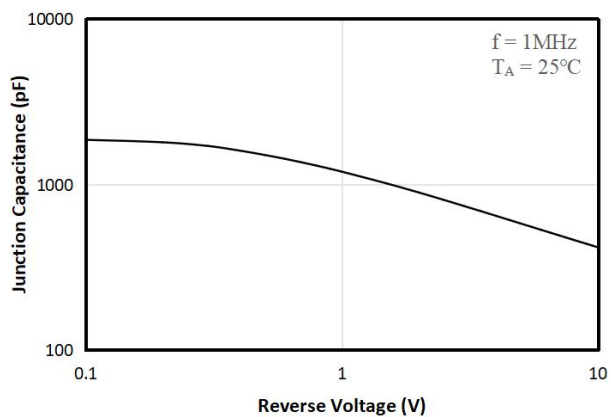


Figure 3. Typical Junction Capacitance



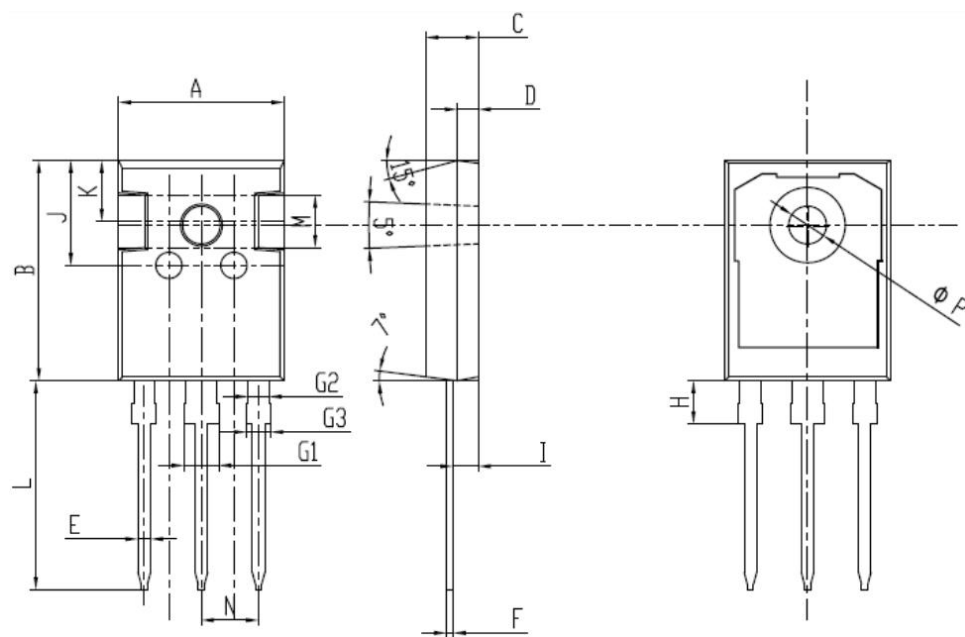


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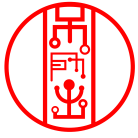
Package Information

TO-247

Dimensions in mm



	(mm)	
	MIN	MAX
A	15.70	15.90
B	20.90	21.10
C	4.90	5.10
D	1.90	2.10
E	1.10	1.30
F	0.45	0.75
G1	3.00	3.20
G2	1.85	2.15
G3	2.00	2.20
H	4.00	4.30
I	2.30	2.50
J	9.90	10.10
K	5.70	5.90
L	19.80	20.20
M	4.85	5.15
N	5.286	5.586
Ø P	3.40	3.60



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