

GMBRD10150S-GMBRD10200S

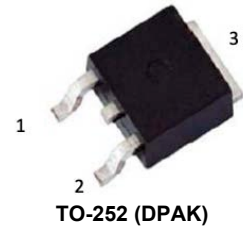
Schottky Rectifiers
 Reverse Voltage 150V-200V Forward Current 10A

Features

- High surge capacity
- High current capacity
- Low forward voltage drop
- Guard ring for overvoltage protection



RoHS
COMPLIANT



TO-252 (DPAK)



Schematic Diagram

Absolute Maximum Ratings

($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	GMBRD10150S	GMBRD10200S	Unit
Current Peak Reverse Voltage	V_{RRM}	150	200	V
RMS Voltage	V_{RMS}	105	140	V
DC Blocking Voltage	V_D	150	200	V
Average Forward Rectified Current @ $T_A=100^{\circ}\text{C}$	$I_{F(AV)}$	10		A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimosed on Rated Load	I_{FSM}	150		A
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	2.2		$^{\circ}\text{C}/\text{W}$
Storage Temperature Range	T_{STG}	-55 To +150		$^{\circ}\text{C}$
Operating Junction Temperature Range	T_J	-55 To +150		$^{\circ}\text{C}$

Electrical Characteristics

($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Max.		Unit.
			GMBRD10150S	GMBRD10200S	
Forward Voltage ¹	V_F	$I_F=10\text{A}$, $T_A=25^{\circ}\text{C}$	0.9	0.95	V
Reverse Current	I_R	$T_A=25^{\circ}\text{C}$, $V_R=V_{RRM}$	0.1		mA
		$T_A=125^{\circ}\text{C}$, $V_R=V_{RRM}$	50		

Note1:Pulse test:300us pulse width, 1% duty cycle

Typical Electrical and Thermal Characteristic Curves

($T_A=25^{\circ}\text{C}$ unless otherwise specified)

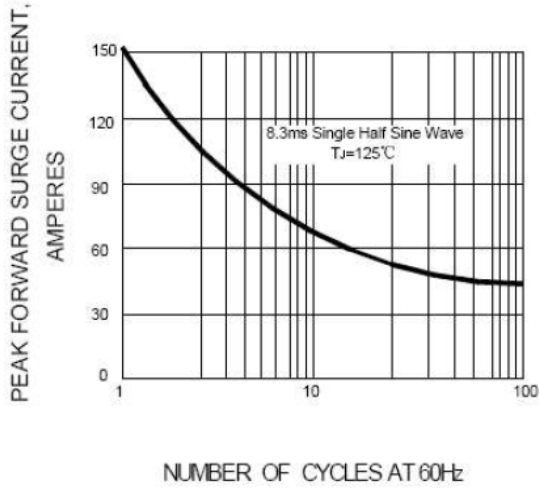


Figure 1. Peak Pulse Power Surge Current

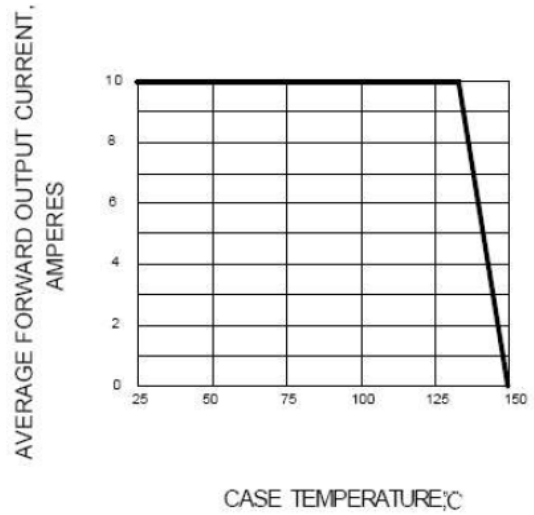
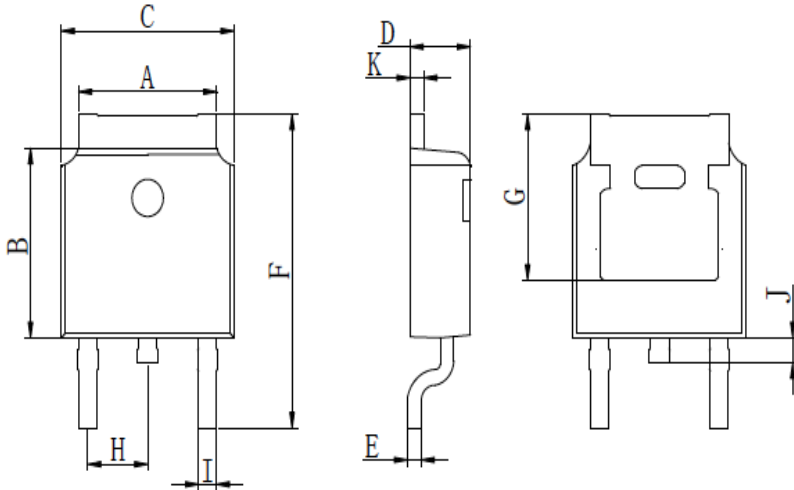


Figure 2. Forward Derating Curve

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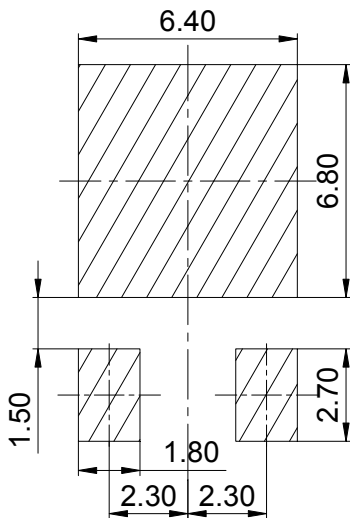
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Package Outline Dimensions (TO-252/DPAK)



TO-252		
A	5.05	5.65
B	5.80	6.40
C	6.25	6.85
D	2.20	2.40
E	0.40	0.60
F	9.71	10.31
G	5.05	5.65
H	2.10	2.50
I	0.70	0.90
J	0.50	0.70
K	0.40	0.60
All Dimensions in mm		

Suggested Pad Layout



Unit:mm