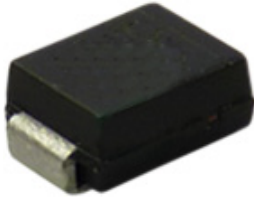


Schottky Barrier Rectifier

2A High Voltage



Features:

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- Surge Overload Rating to 50A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- High Temperature Soldering: 260°C/10 Second at Terminal

Mechanical Data:

Case	: SMB
Case Material	: Molded Plastic
Moisture Sensitivity	: Level 1 per J-STD-020
Terminals	: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208
Polarity	: Cathode Band or Cathode Notch
Weight	: 0.093 grams (approximate)

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	B2100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	
Average Rectified Output Current @ T _T = 125°C	I_O	2	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	50	

Thermal Characteristics:

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Terminal (Note 1)	$R_{\theta JT}$	15	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	°C

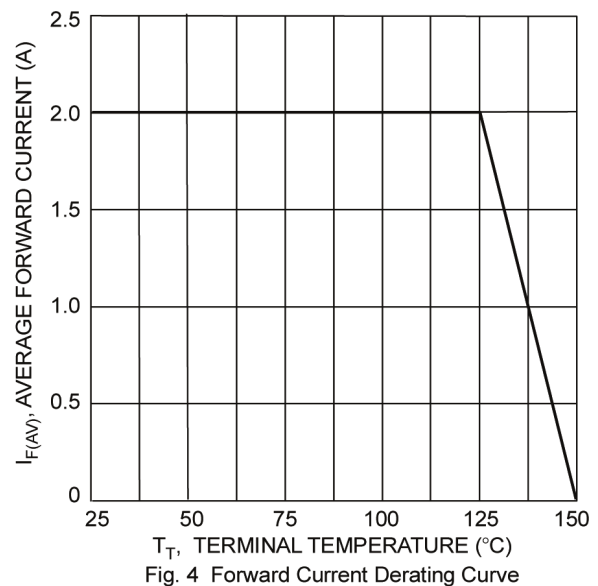
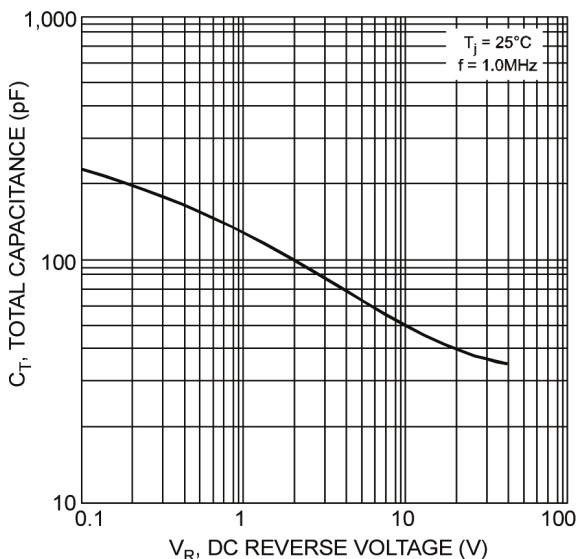
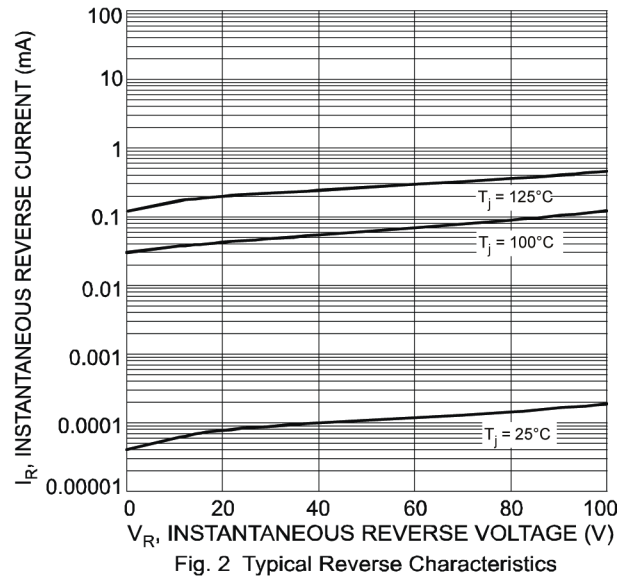
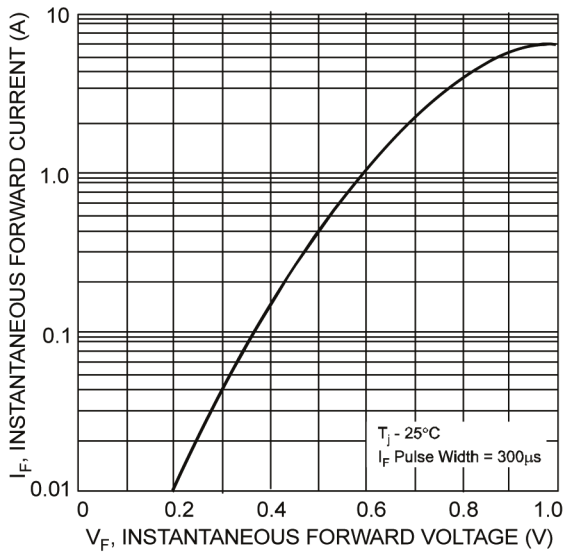
Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V_F	-	-	0.79 0.69	V	$I_F = 2A, T_A = 25^\circ C$ $I_F = 2A, T_A = 100^\circ C$
Leakage Current (Note 2)	I_R	-	-	7 2	μA mA	@ Rated $V_R, T_A = 25^\circ C$ @ Rated $V_R, T_A = 100^\circ C$
Total Capacitance	C_T	-	-	75	pF	$V_R = 4V, f = 1MHz$

- Notes: 1. Valid provided that terminals are kept at ambient temperature.
2. Short duration pulse test used to minimize self-heating effect.

Schottky Barrier Rectifier

2A High Voltage



Schottky Barrier Rectifier

2A High Voltage

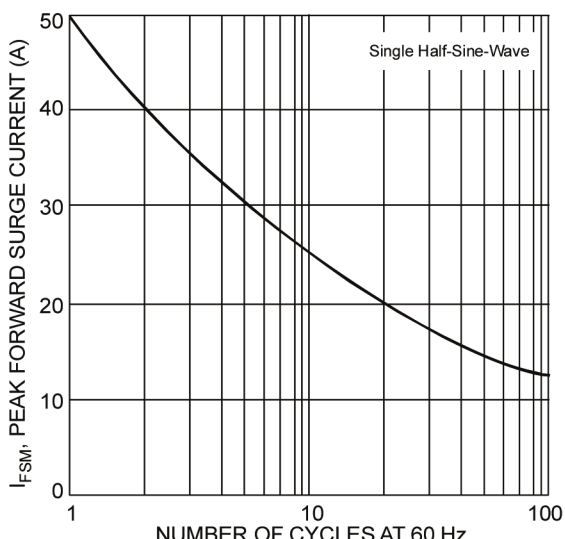
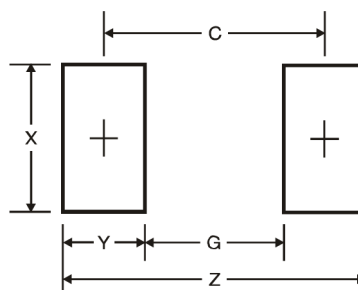
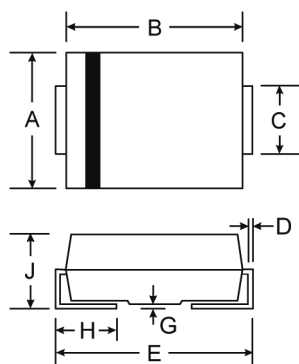


Fig. 5 Max Non-Repetitive Peak Forward Surge Current

Pad Layout



Dimensions	Value (mm)
Z	6.7
G	1.8
X	2.3
Y	2.5
C	4.3



Dim	Min	Max
A	3.3	3.94
B	4.06	4.57
C	1.96	2.21
D	0.15	0.31
E	5	5.59
G	0.05	0.2
H	0.76	1.52
J	2	2.5

Dimensions : Millimetres

Part Number Table

Description	Part Number
Rectifier, Schottky, 2A, 100V	B2100-13-F

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