GSDBS1xxF Series

Bridge Rectifiers

Product Description

Reverse Voltage up to 1000V.
Forward Current 1.0A

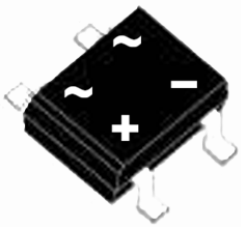
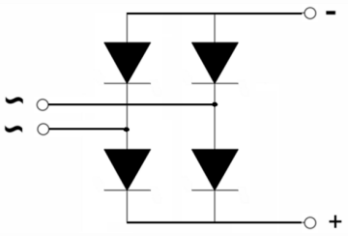
Features

- Low Forward Voltage Drop

Mechanical Data

- DBS Package
- RoHS Compliant and Halogen Free

Package and Pin Assignment

DBS	Equivalent Circuit
	

Ordering and Marking Information

Ordering Information

Part Number	V_{RRM}	Marking Code	Quantity/Reel
GSDBS110F	1000V	DB107S	1,500 PCS
GSDBS104F	400V	DB104S	
GSDBS101F	100V	DB102S	

GSDBS1 □□

- **Product Code:** GSDBS1
- **Voltage Code:** □□ 10 is 1000V, 04 is 400V and 01 is 100V
- **Green Level:** **F** for RoHS Compliant and Halogen Free

Marking Information

DB10□S

- **Product Code:** DB10
- **Voltage Code:** □ 7S is 1000V, 4S is 400V and 2S is 100V

Electrical Characteristics (T_A=25ºC unless otherwise specified)

Symbol	Description	GSDBS101F	GSDBS104F	GSDBS110F	Unit
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	100	400	1000	V
V_{RMS}	Maximum RMS Voltage	70	280	700	
V_{DC}	Maximum DC Blocking Voltage	100	400	1000	
$I_{(AV)}$	Maximum Average Forward Rectified Current T_A=40℃	1			A
I_{FSM}	Peak Forward Surge Current, 8.3ms Single Half-Sine-Wave Superimposed on rated Load (JEDEC Method)	50			A
V_F	Maximum Forward Voltage at 1.0A	1.1			V
I_R	Maximum Reverse Current at Rated DC Blocking Voltage T_J=25℃	10			μA
	T_J=125℃	500			
I^2t	Rating for fusing (t < 8.3 ms)	10			A^2s
C_J	Typical Junction Capacitance (1)	25			pF
$R_{\theta JA}$	Typical Thermal Resistance [1]	40			°C/W
T_J	Junction Temperature Range	-55 to 150			°C
T_{STG}	Storage Temperature Range	-55 to 150			°C

NOTE:
1. Measured at 1MHz and applied reverse voltage of 4.0 V_{DC}.
2. Mounted with 0.5 x 0.5” (13.0 x 13.0mm) Copper Pad Areas

Typical Characteristics (T_A=25℃ unless otherwise specified)

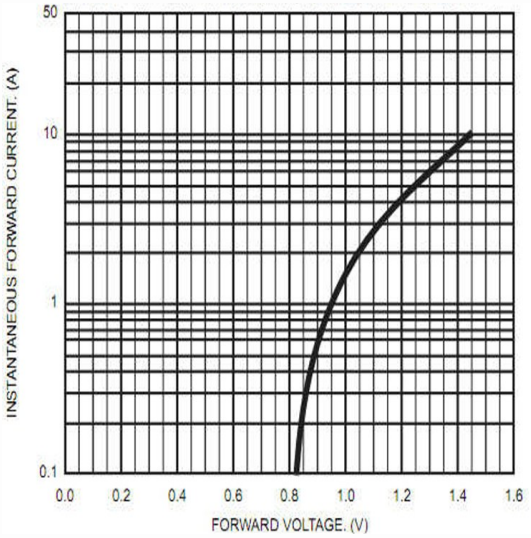


FIG.1 Forward Characteristics

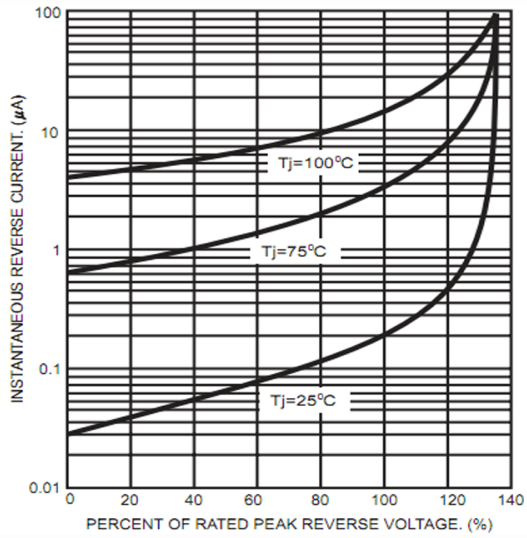


FIG.2 Reverse Characteristics

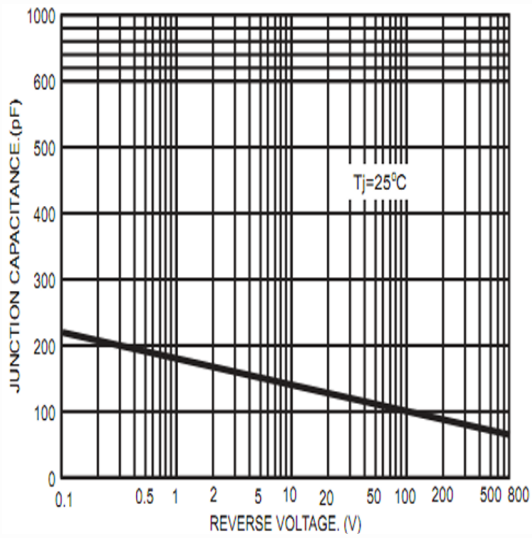


FIG.3 Capacitance Characteristics

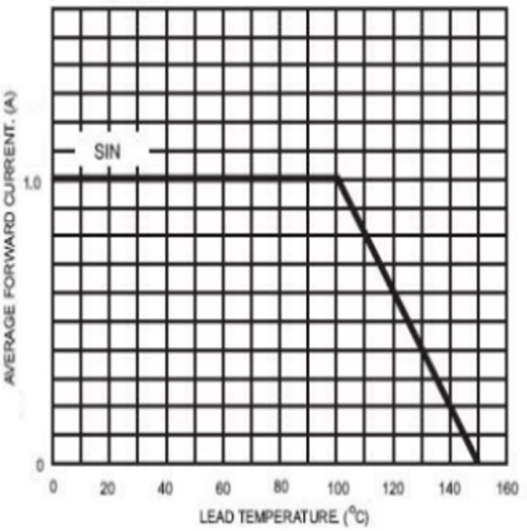


FIG.4 Forward Current Derating Curve

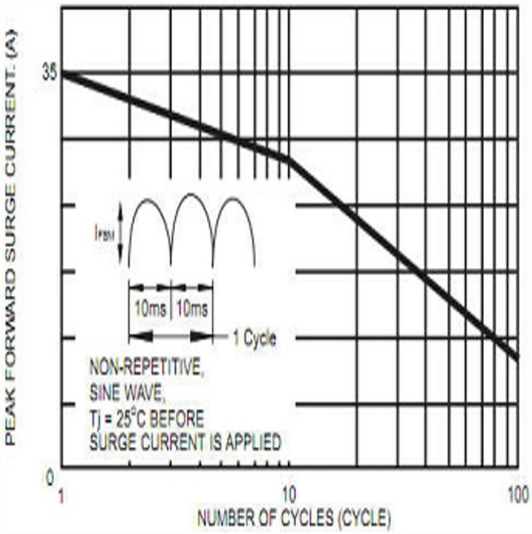
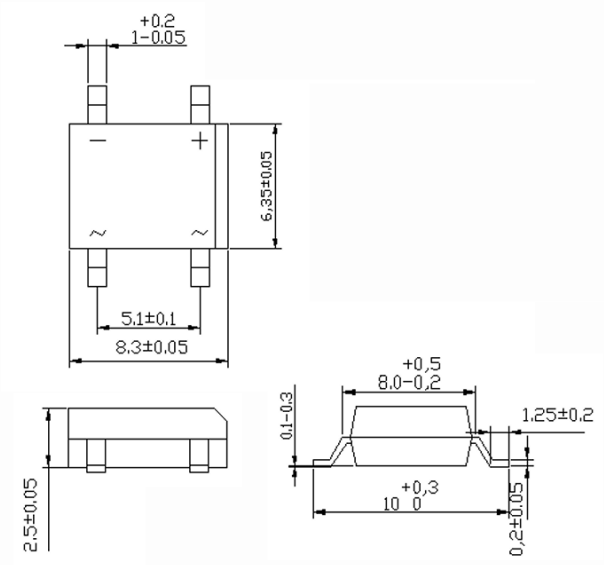


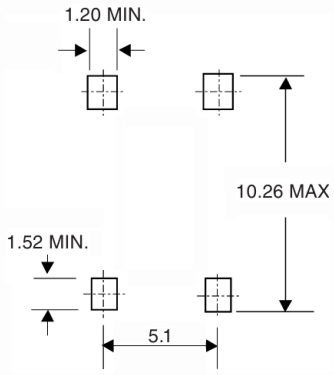
FIG.5 Non-Repetitive Surge Forward Current

DBS

Package Dimension



Recommended Land Pattern



Unit:mm

NOTE:

Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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CONTACT US

GS Headquarter	
	4F, NO.43-1, Lane 11, Sec. 6, Minquan E. Rd Neihu District, Taipei City 114761, Taiwan (R.O.C).
	886-2-2657-9980
	886-2-2657-3630
	sales_twn@gs-power.com

RD Division	
	824 Bolton Drive Milpitas. CA. 95035
	1-408-457-0587