

Surface Mount Bridge-Rectifier

DB101S—DB107S

Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ High surge current capability

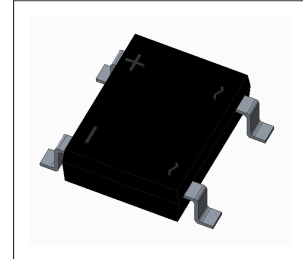
Mechanical Data

Case: DFS Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: 260°C/10 seconds

Mounting Position: Any



Maximum Ratings & Electrical Characteristics

Ratings at TA = 25°C unless otherwise specified

Parameter		Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Average forward rectified output current		I _{F(AV)}	1.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	30							A
Rating for fusig (t<8.3ms)		I ² t	3.7							A ² sec
Maximum instantaneous forward voltage dropper leg at 1.0A		V _F	1.10							V
Maximum DC reverse current at rated DC blocking voltage per leg	T _J =25℃	I _R	5.0							uA
	T _J =125℃		500							

Thermal Characteristics

Typical thermal resistance per leg (Note 1)	$R_{\theta JA}$	68	°C/W
	$R_{\theta JL}$	15	
Operating junction temperature range	T_J	-55 to +150	°C
Storage temperature range	T_{STG}	-55 to +150	°C

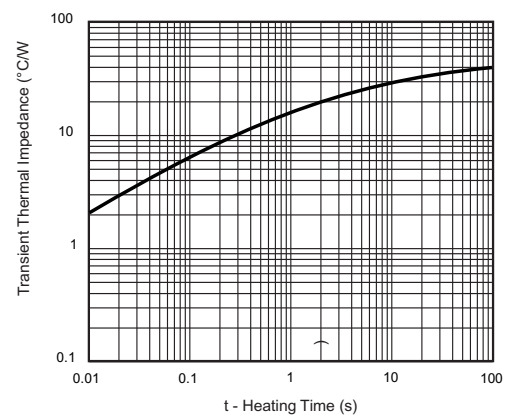
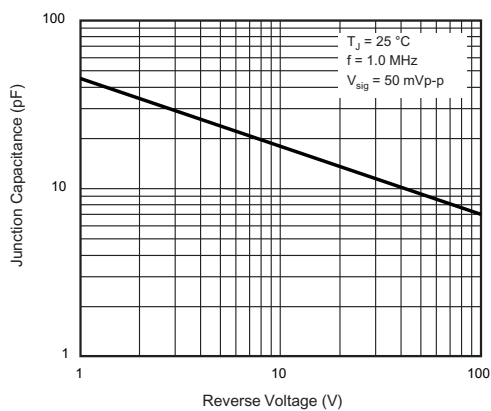
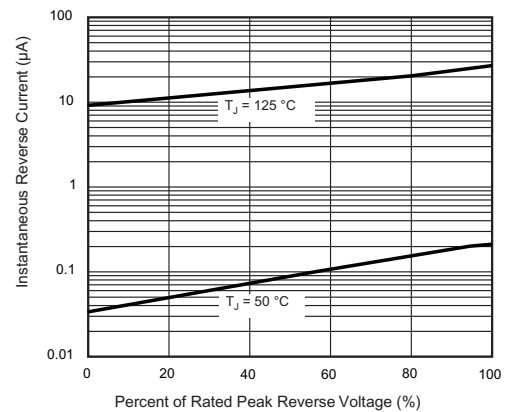
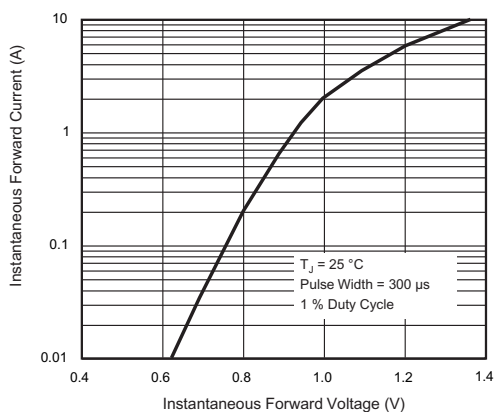
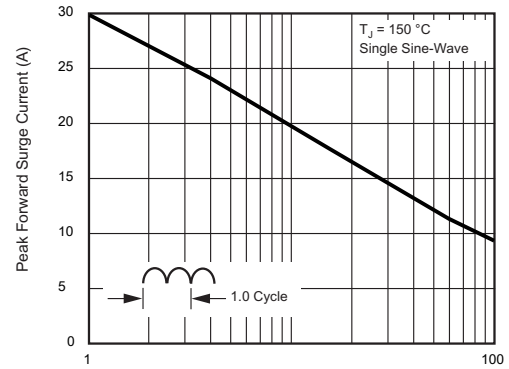
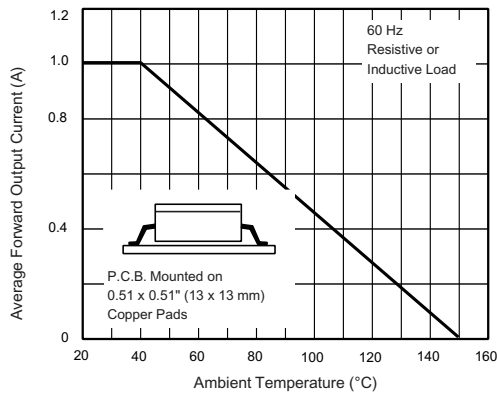
Note

(1) Units mounted on PCB with 0.47×0.47(12×12mm) Copper Pads

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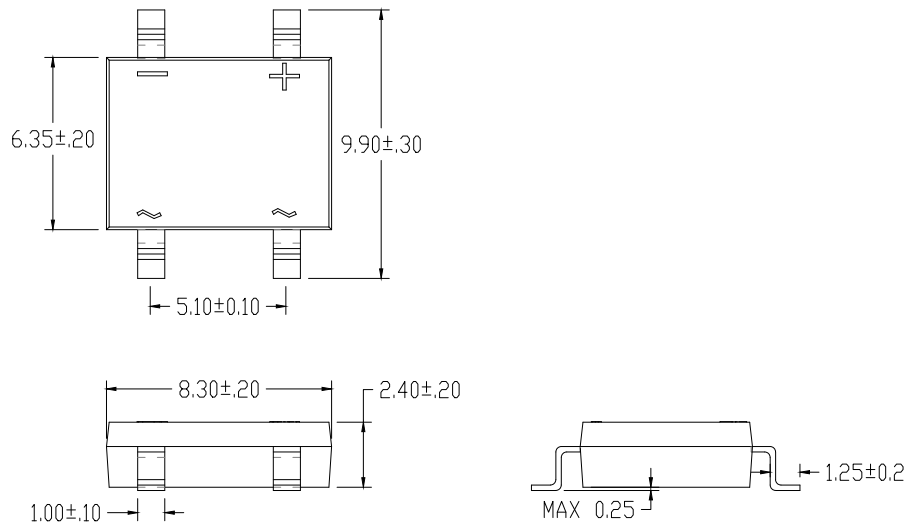
Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



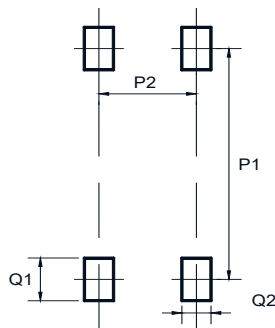
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Package Outline Dimensions(unit:mm)



Mounting Pad Layout(unit:mm)



Dim	Min
P1	8.73
P2	5.12
Q1	2.22
Q2	1.2

Ordering Information

Part No.	Marking	Package	Shipping
DB101S	DB101S	DFS	1500/Tape&Reel
DB102S	DB102S	DFS	1500/Tape&Reel
DB103S	DB103S	DFS	1500/Tape&Reel
DB104S	DB104S	DFS	1500/Tape&Reel
DB105S	DB105S	DFS	1500/Tape&Reel
DB106S	DB106S	DFS	1500/Tape&Reel
DB107S	DB107S	DFS	1500/Tape&Reel