

## Surface Mount Glass Passivated Bridge Rectifiers

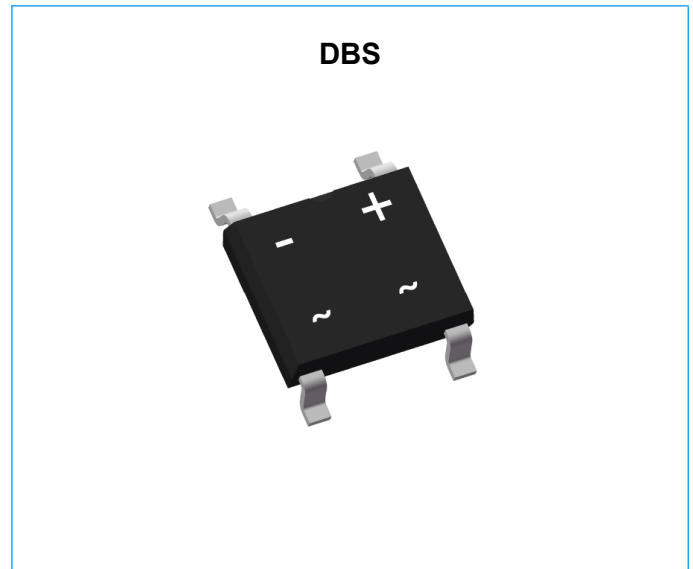
**DB101S~DB107S**
**50 to 1000 V**
**1.0A**
**DBS**

### Features

- u Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- u Glass passivated junction chip
- u Rating to 1000V PRV
- u Ideal for printed circuit board
- u High temperature soldering guaranteed: 260 °C /10 seconds at terminals
- u Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### Mechanical Data

- u Case: DBS molded plastic body
- u Epoxy: UL94V-0 rate flame retardant
- u Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- u Mounting Position: Any
- u Weight : 0.02 ounce, 0.38 grams



### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half-wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit	
Maximum Recurrent 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	
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50							A	
Maximum Instantaneous Forward Voltage at 1.0 A DC	$V_F$	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$	$I_R$							10	$\mu A$
	$T_A=125^{\circ}C$									
Typical Junction Capacitance (Note 1)	$C_J$	25							pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							K/W	
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							°C	

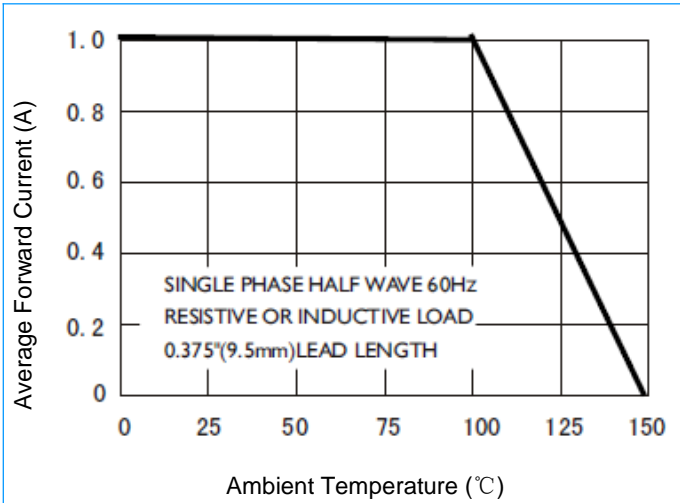
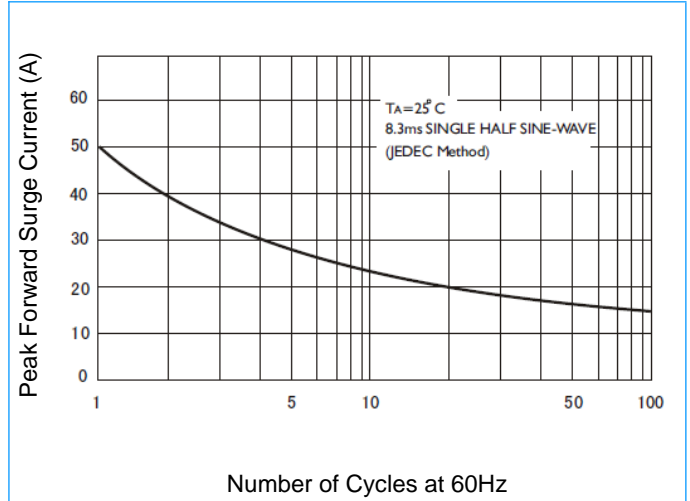
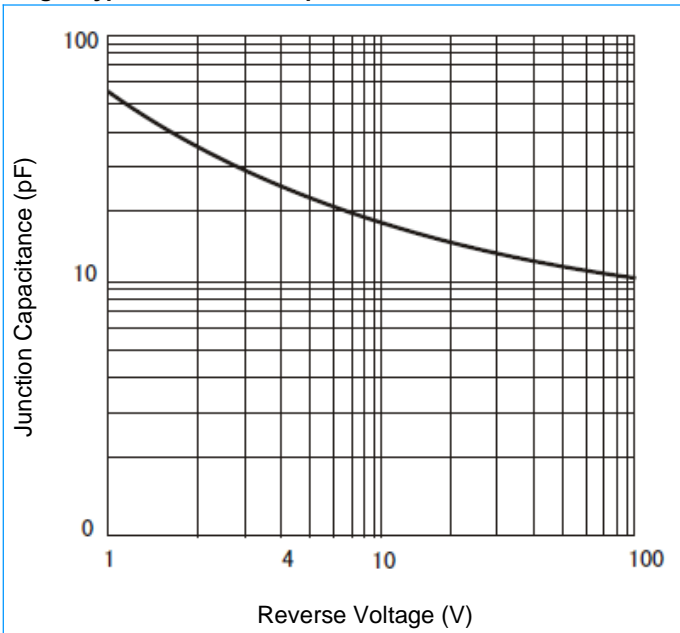
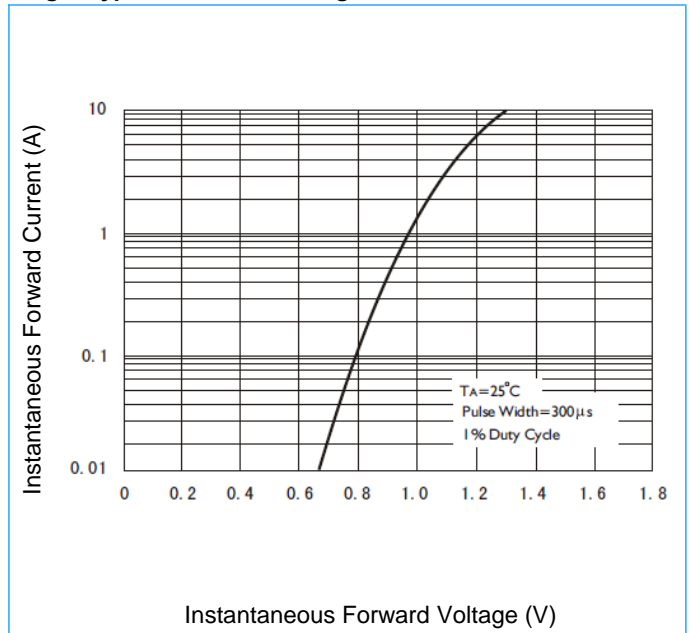
**Notes:** 1. Measured at 1MHz and applied reverse voltage of 4.0V.

2. Thermal resistance junction to ambient mounted on P.C.B with 0.5\*0.5 inches (1.3\*1.3mm) copper pads.

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## Rating and Characteristic Curves

**Fig1. Typical Forward Current Derating Curve**

**Fig2. Maximum Non-repetitive Forward Surge Current**

**Fig3. Typical Junction Capacitance**

**Fig4. Typical Forward Voltage Characteristics**


# Surface Mount Glass Passivated Bridge Rectifiers

DB101S~DB107S

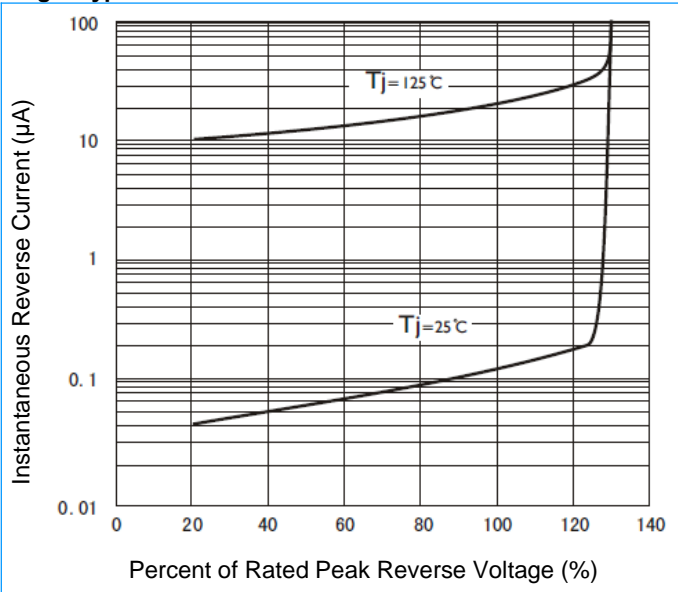
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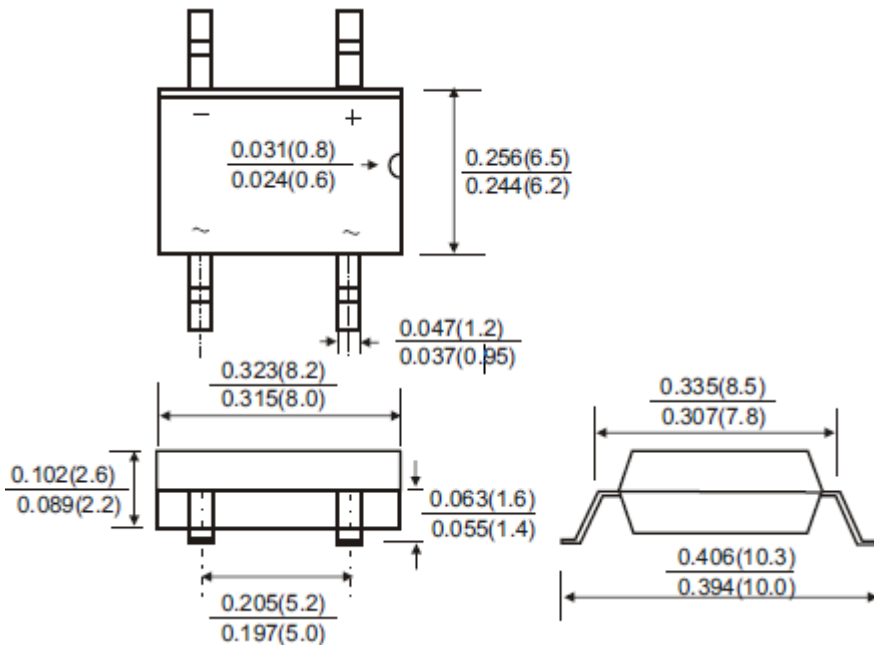
DBS

## Rating and Characteristic Curves (Continue)

Fig5. Typical Reverse Characteristics



## DBS Package Outline (Dimensions in inches and (millimeters))



## Packaging Information

Part Number	Component Package	Quantity
DB101S~DB107S	DBS	3000 PCS