

DB101S thru DB107S

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

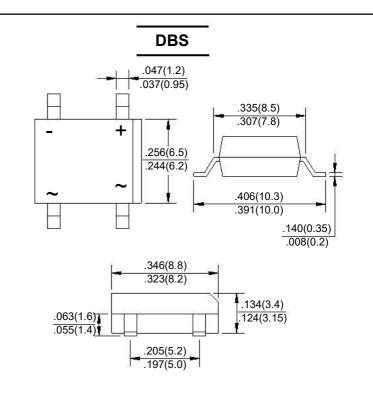
REVERSE VOLTAGE - **50** to **1000**Volts FORWARD CURRENT - **1.0** Ampere

FEATURES

- ●Rating to 1000V PRV
- Ideal for printed circuit board
- ●Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarit: As marked on Body
- ●Weight:0.02 ounces,0.38 grams
- •Mounting position:Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

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CHARACTERISTICS		SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward		Lavo	1.0							Α
Rectified Current	@ T A =40 ℃	I _(AV)	1.0							^
Peak Forward Surge Current										7
8.3ms Single Half Sine-Wave		IFSM	30							Α
Super Imposed on Rated Load (JEDEC Method)										
Maximum Forward Voltage at 1.0A DC		VF	1.1							V
Maximum DC Reverse Current	@ TJ=25℃	IR	10 500							μΑ
at Rated DC Bolcking Voltage	@T J=125℃									
l₂t Rating for Fusing (t<8.3ms)		l ² t	3.735							A ₂ s
Typical Junction Capacitance Per Element (Note1)		CJ	25							pF
Typical Thermal Resistance (Note2)		Reja	40							°C/W
Operating Temperature Range		TJ	-55 to +150							$^{\circ}$
Storage Temperature Range		Тѕтс	-55 to +150							$^{\circ}$
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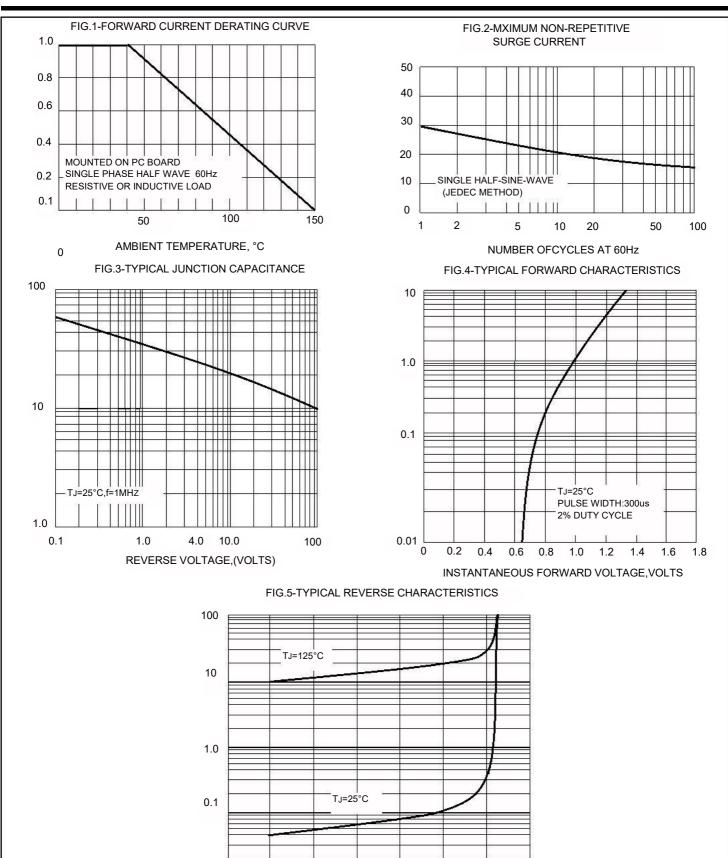
Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 2.Thermal resistance from junction to ambient mounted on P.C.B. with 0.5*0.5"(13*13mm) copper pads.
- 3.The typical data above is for reference only(典型值仅供参考).

REV. 6, 30-Dec-2014

RATING AND CHARACTERISTIC CURVES DB101S thru DB107S





The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

0.01

140

60

80

PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

100