GMGarboMicro Semiconductor

DB301S thru DB307S

SURFACE MOUNT GLASS PASSIVATED BRIDEG RECTIFIERS

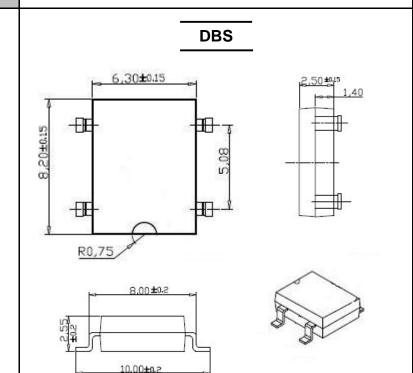
REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 3.0 Amperes

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
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 $^\circ\!\!\!\mathrm{C}$ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

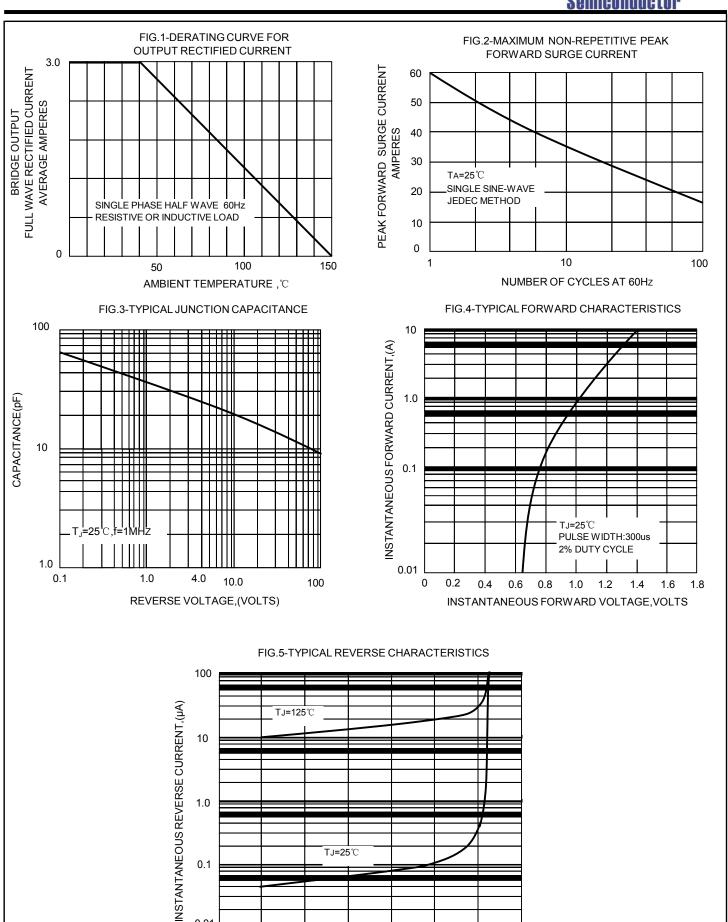
CHARACTERISTICS	SYMBOL	DB301S	DB302S	DB303S	DB304S	DB305S	DB306S	DB307S	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=40°C	I(A∨)	3.0						А	
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC .Method)	IFSM	60							A
Maximum Forward Voltage at 3.0A DC	VF	1.1							V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=125℃	lr	10 500							uA
I ² t Rating for Fusing (t<8.3ms)	l ² t	10.4							A ² s
Typical Junction capacitance Per Element(Note1)	CJ	25							pF
Typical Thermal Resistance (Note2)	Rejc	40							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150						°C	

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.

RATING AND CHARACTERISTIC CURVES DB301S thru DB307S



TJ=25℃

60

.

80

PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

120

100

140

0.1

0.01 0

20

40

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