DB301S THRU DB307S

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

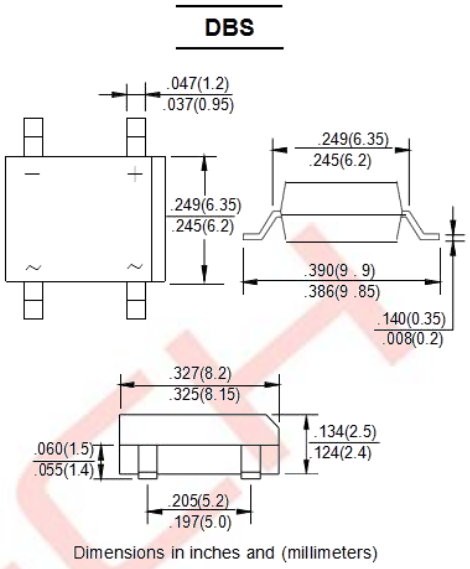
Reverse Voltage : 50 to 1000 V Rectified Output Current: 3 A

FEATURES

- Rating to 1000V PRV
- Ldeal 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

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

Parameter	Symbols	DB301S	DB302S	DB303S	DB304S	DB305S	DB306S	DB307S	Units
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 Rectified Output Current at TA = 40 °C	$I_{(AV)}$	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
Forward Voltage per element at I_F= 3A	V_F	1.1							V
Maximum DC Reverse Current @T_a=25 °C at Rated DC Blocking Voltage @T_a=125 °C	I_R	5.0 200							μA
Typical Junction Capacitance (Note1)	C_j	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2.Thermal Resistance test performed in accordance with JESD-51。Unit mounted on 15mm*12mm81.6mm AL pad attach 195mm*110mm*10mm steel plate.
3.The typical data above is for reference only.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

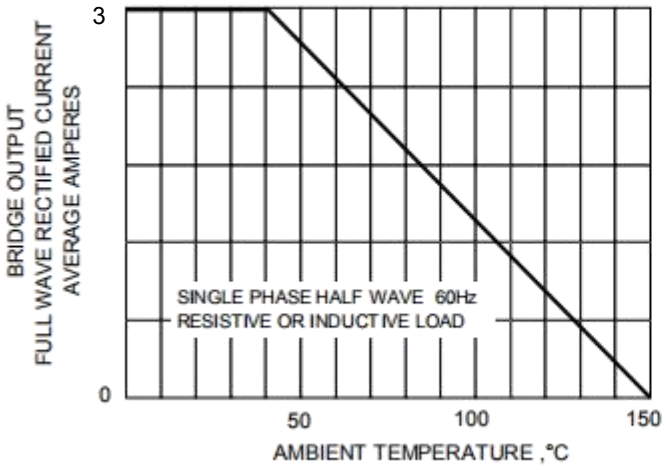

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

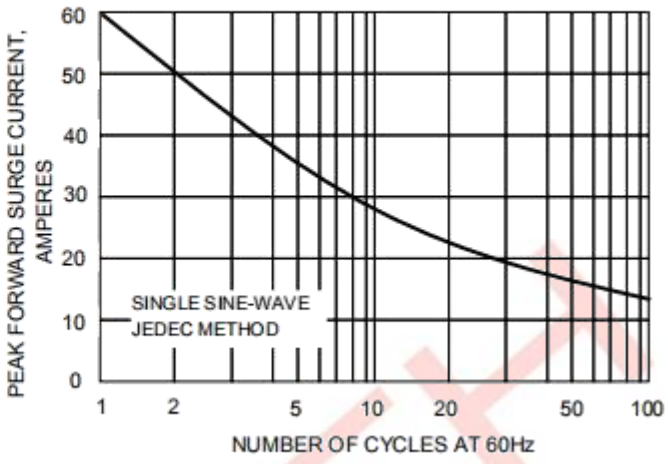

FIG.3-TYPICAL JUNCTION CAPACITANCE

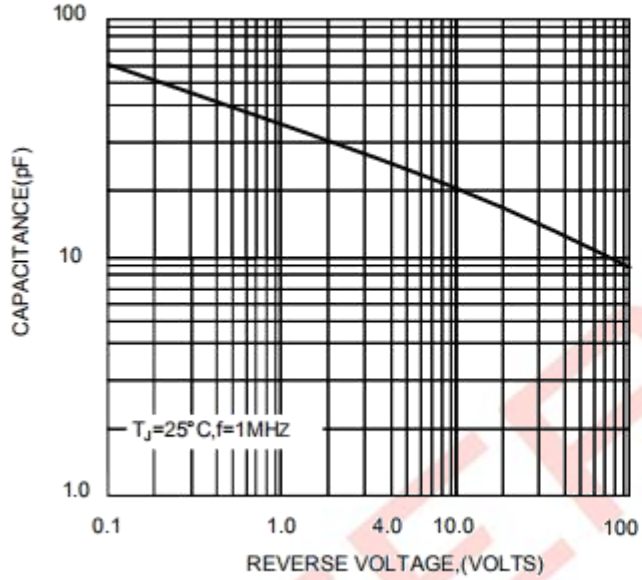

FIG.4-TYPICAL FORWARD CHARACTERISTICS

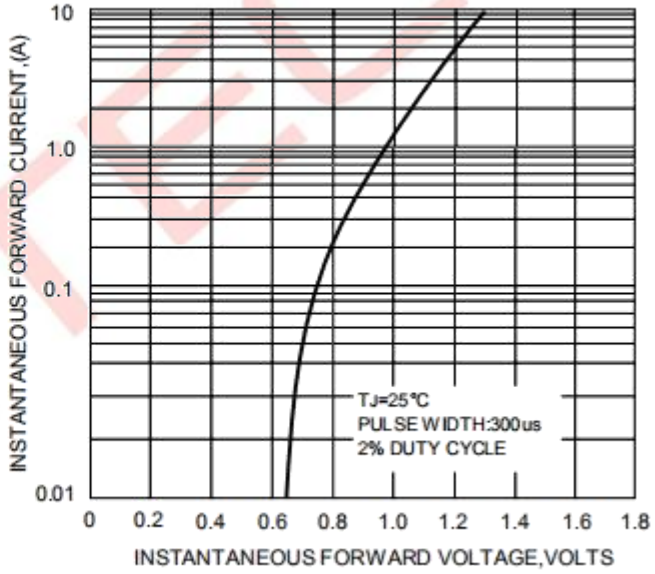

FIG.5-TYPICAL REVERSE CHARACTERISTICS