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DB101 THRU DB107

Single Phase 1.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 1.0 Amperes

DB

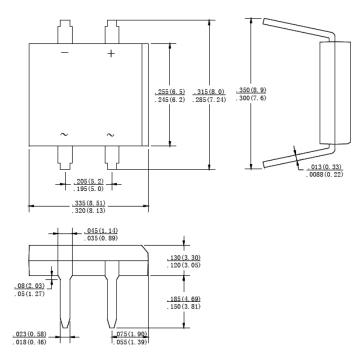
FEATURES

- ◆Ideal for printed circuit board
- ◆Reliable low cost construction technique results in inexpensive product
- ◆High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ◆UL Recognized File number: E347214

MECHANICAL DATA

◆ Case: Molded plastic◆ Lead: solder plated

◆Polarity: As marked



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

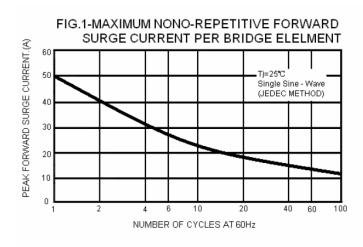
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOLS	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
Maximum Repetitive 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	Long	1.0							А
at T _A =40 °C	I(AV)								
Peak Forward Surge Current,									
8.3ms Single Half Sine-wave Superimposed on	IFSM	IFSM 50						Α	
Rated Load (JEDEC method)									1
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1							V
Maximum DC Reverse Current @ Ta=25 ℃	1_	10							μΑ
rated DC blocking voltage per leg Ta=125 $^{\circ}\mathrm{C}$	lR	500							
Typical Thermal Resistance (Note)	Reja	40 15							°C/W
	Rejl								
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47 × 0.47" (12 × 12mm) Copper Pads.

DB101 THRU DB107

RATING AND CHARACTERISTIC CURVES DB101 THRU DB107



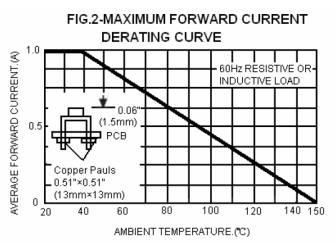


FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER BRIDGE ELEMENT

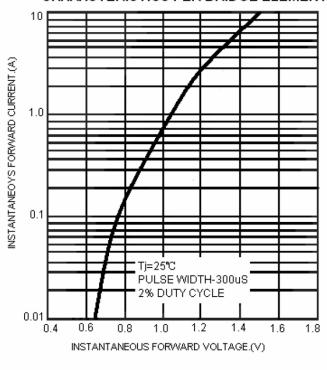
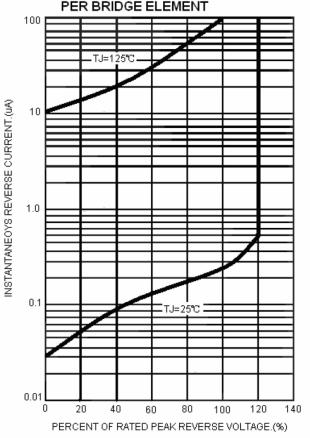


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.