



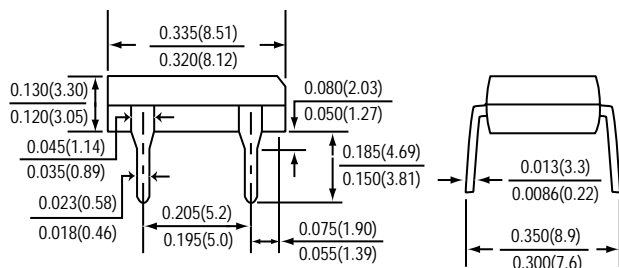
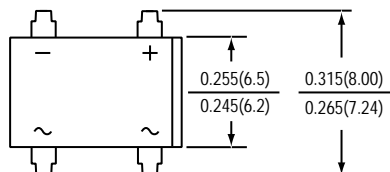
# DB101G THRU DB107G

## GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

DFM



\*Dimensions in inches and (millimeters)



### FEATURES

- \* This series is UL listed under the Recognized Component Index, file number E-96005
- \* Surge overload rating of 50 Amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

### MECHANICAL DATA

**Case :** JEDEC DFM molded plastic body over passivated junction  
**Terminals :** Plated leads solderable per MIL-STD-750, Method 2026  
**Polarity :** Color band denotes cathode end  
**Mounting Position :** Any  
**Weight :** 0.04 ounces , 1.0 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.	SYMBOLS	DB							UNITS
		101G	102G	103G	104G	105G	106G	107G	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @TA=40°C	I (AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.1							Volts
Maximum reverse current @TA=25°C at rated DC blocking voltage per element @TA=125°C	IR	10 500							uA
Typical junction capacitance (NOTE 1)	CJ	25							pF
Typical thermal resistance (NOTE 2)	RθJA RθJL	40 15							°C / W
Operating junction and storage temperature range	TJ,TSTG	-55 to +150							°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts  
 (2) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X0.5" (13 X 13mm) copper pads

# RATINGS AND CHARACTERISTIC CURVES DB101G THRU DB107G

FIG.1 - FORWARD CURRENT DERATING CURVE

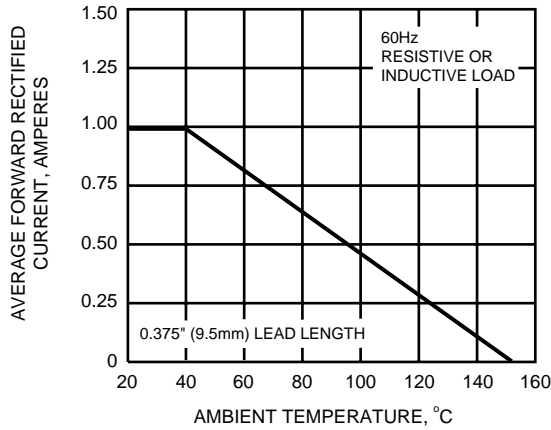


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

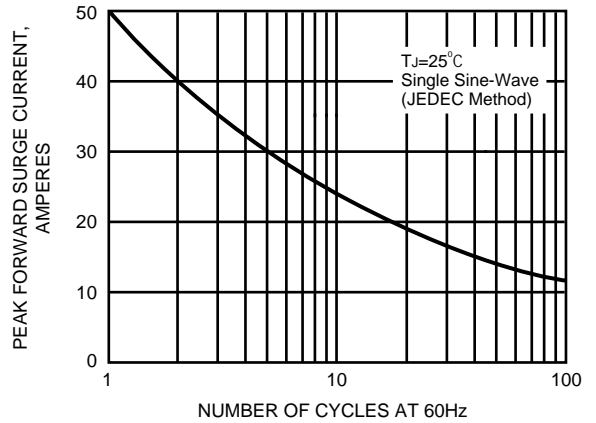


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

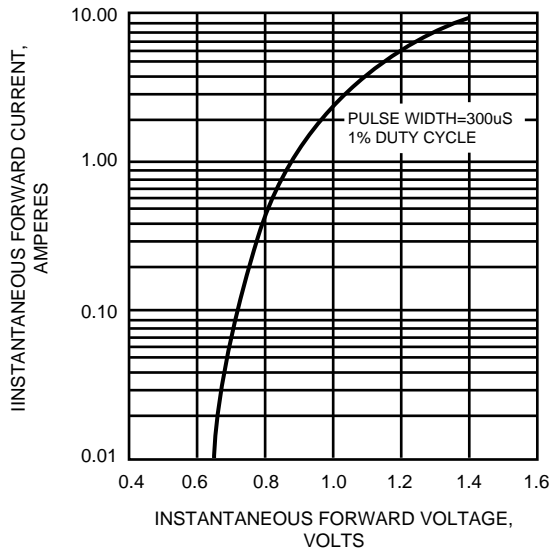


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

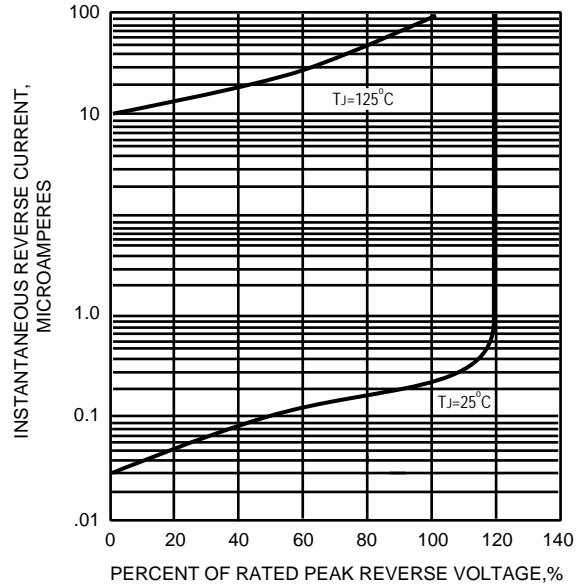


FIG.5 - TYPICAL JUNCTION CAPACITANCE

