



# DB101(S) THRU DB107(S)

**SINGLE PHASE 1.0AMP.  
GLASS PASSIVATED BRIDGE  
RECTIFIERS**

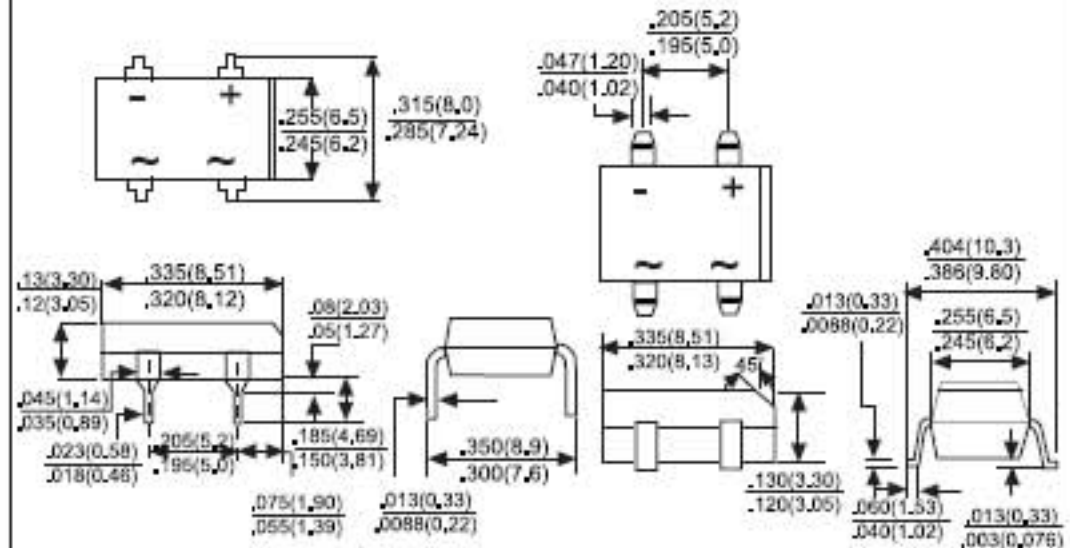
**Voltage Range  
50 to 1000 Volts  
Current  
1.0Ampere**

**FEATURES**

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed:  
• 250°C/10 seconds / 0.375"(9.5mm) lead length at 5 lbs.,(2.3kg)tension
- Small size, simple installation  
Leads solderable per MIL-STD-202, Method 208
- High surge current capability

DB

DBS



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%

Type Number		DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
		DB 101S	DB 102S	DB 103S	DB 104S	DB 105S	DB 106S	DB 107S	
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 @TA = 40°C	IF(AV)	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated load (JEDEC method)	IFSM	50							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 1.0A	VF	1.1							V
Maximum DC Reverse Current @ TA = 25°C at Rated DC Blocking Voltage @ TA = 125°C	IR	5 100							uA uA
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

Note: DBS for Surface Mount Package.

# RATING AND CHARACTERISTIC CURVES DB101(S) THRU DB107(S)



FIG.1 - MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

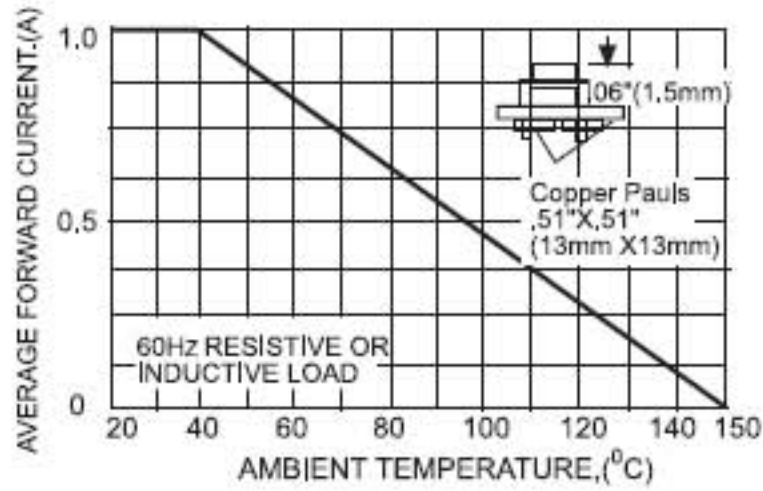


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

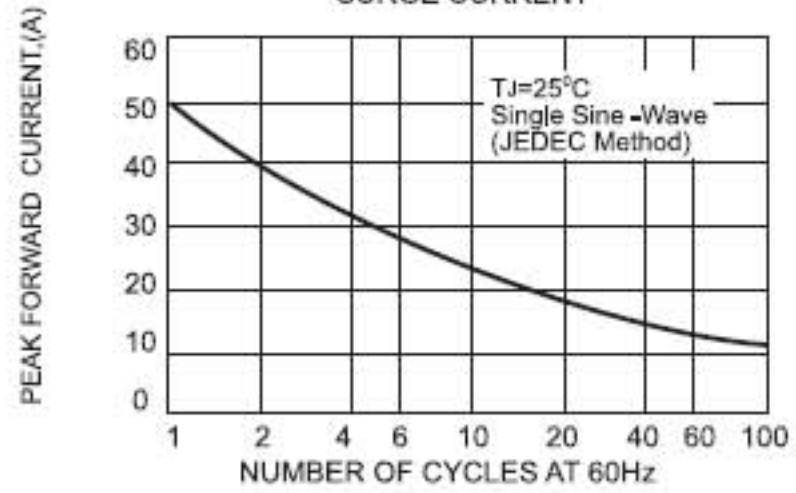


FIG.3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

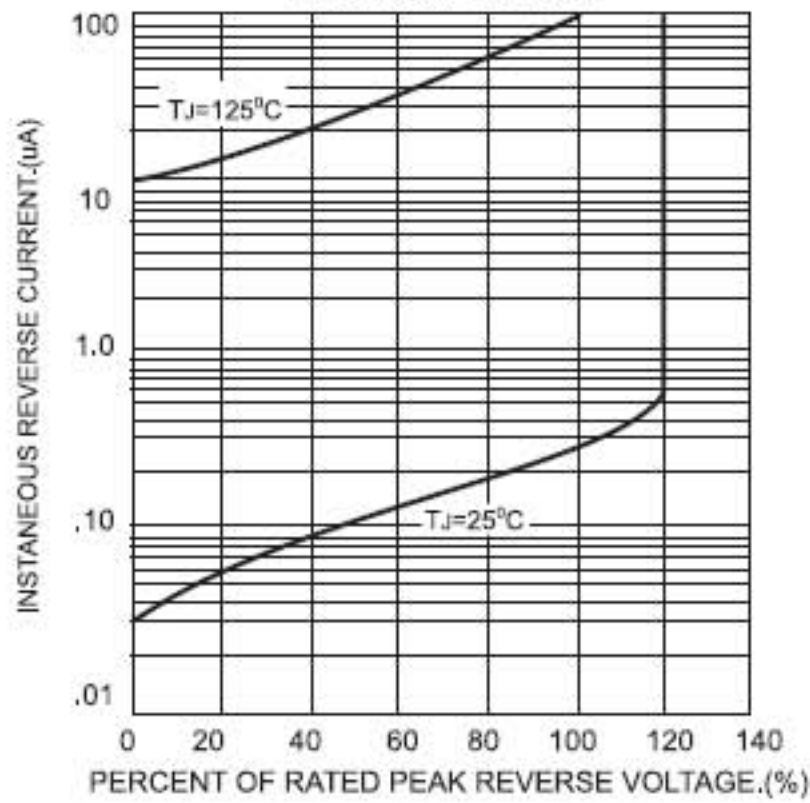


FIG.4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

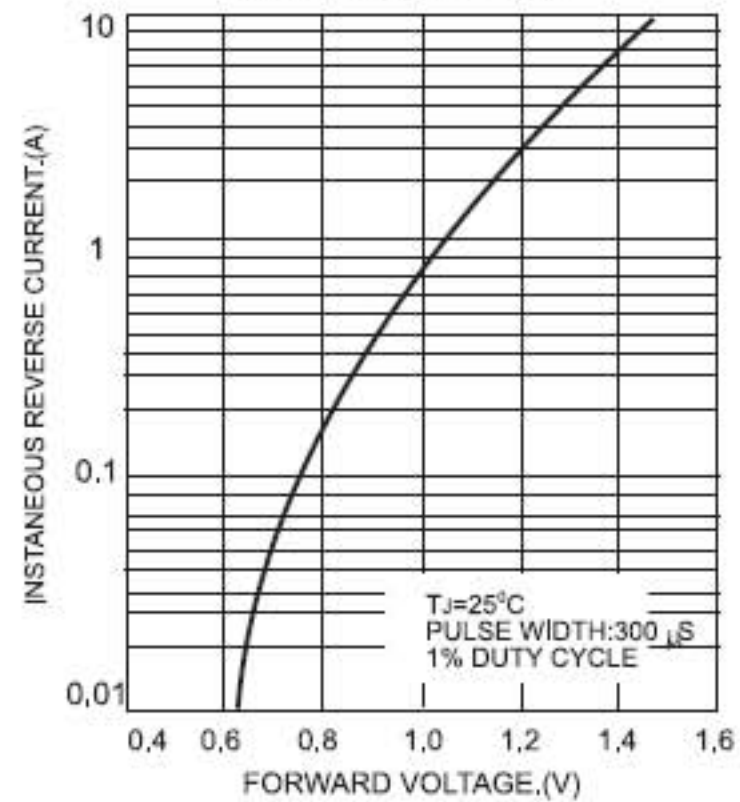


FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

