



GAIA TECH

DB101(DF005) THRU DB107(DF10)

GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage: 50 to 1000 Volts
Forward Current: 1.0 Amps

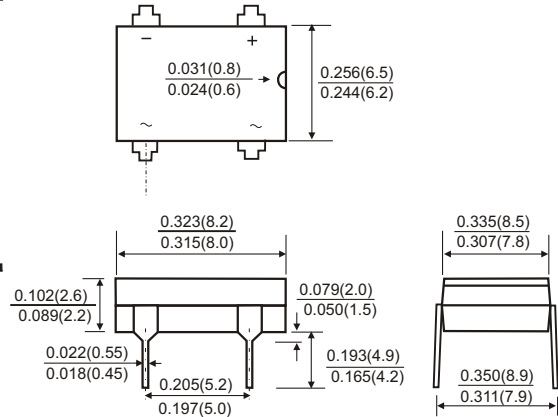
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: DB molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Weight: 0.02ounce, 0.38 gram

DB



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 DF005	DB102 DF01	DB103 DF02	DB104 DF04	DB105 DF06	DB106 DF08	DB107 DF10	Units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		I(AV)	1.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	50							Amps
Maximum Instantaneous Forward Voltage at 1.0 A DC		V _F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25 °C	I _R	10							μA
	T _A =125 °C		500							
Typical junction capacitance(Note 1)		C _J	25							pF
Typical thermal resistance(Note 2)		R _{θJA}	40							K/W
Operating junction and storage temperature range		T _J T _{STG}	-55 to +150							°C



GAIA TECH

RATINGS AND CHARACTERISTIC CURVES DB101 (DF005) THRU DB107 (DF10)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

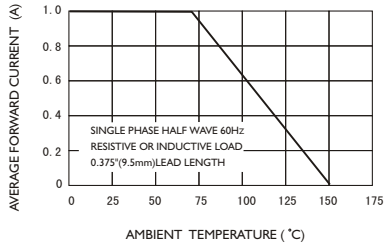


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

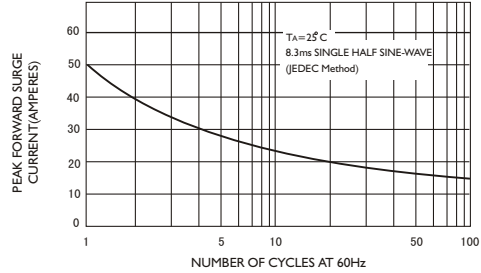


FIG3-TYPICAL JUNCTION CAPACITANCE

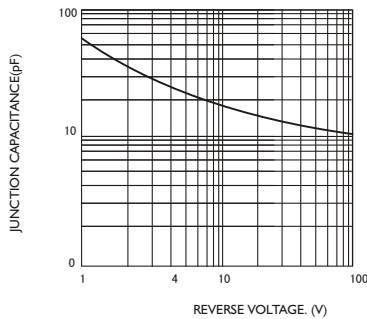


FIG4-TYPICAL FORWARD CHARACTERISTICS

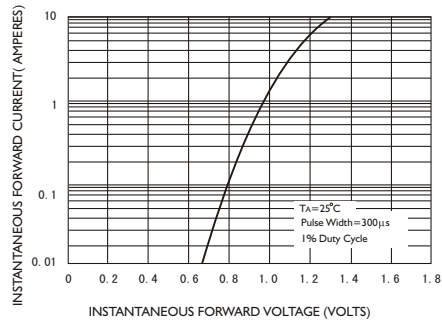


FIG.5-TYPICAL REVERSE CHARACTERISTICS

