

VI. Bridge Rectifier

1.0A SMD Glass Passivated Bridge Rectifier DB101GS~DB107GS

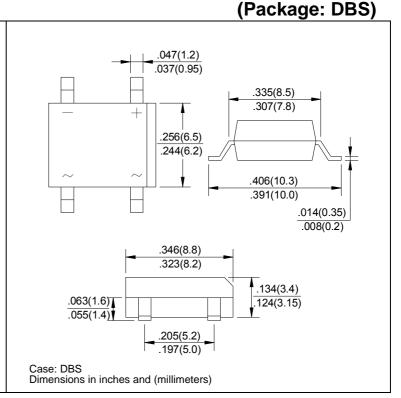
FEATURES

- · Rating to 1000V PRV
- · Ideal 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 Underwriters Laboratory Flammability Classification 94V-0

MECHANICAL DATA

Polarity : As marked on bodyMounting position : Any

• Weight: 0.02 ounces, 0.38 grams



Ratings & Electrical Characteristics

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

Characteristic	Symbol	DB 101GS	DB 102GS	DB 103GS	DB 104GS	DB 105GS	DB 106GS	DB 107GS	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 @ Ta = 40	lo	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							Amps
Maximum forward voltage at 1.0A DC	V _F	1.1						Volts	
Maximum DC reverse current @ Tj=25 at rated DC blocking voltage @ Tj=125	I _R	10 500							μА
I^2 t Rating for Fusing (t < 8.3ms)	l ² t	10.4						A ² s	
Typical junction capacitance per element (Note 1)	Cj	25						PF	
Typical thermal resistance (Note 2)	Rth-JA	40						/ W	
Operating temperature range	Tj	-55 to +150							
Storage temperature range	Tstg	-55 to +150							

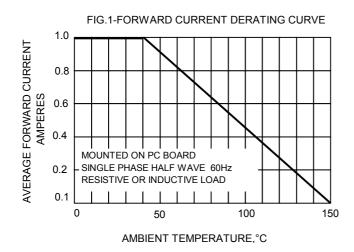
Note:

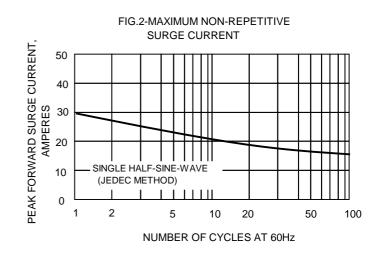
^{1.} Measured at 1.0MHz and applied reverse voltage of 4.0V DC

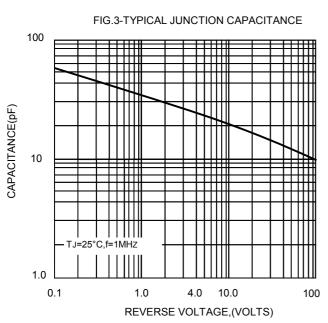
^{2.} Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5" (13*13mm) copper pads

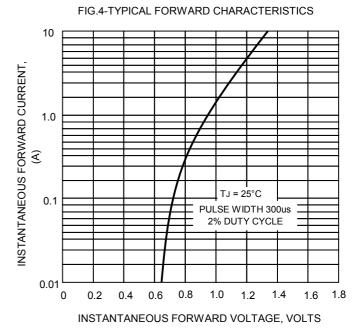


Ratings and Characteristic Curves of DB101GS~DB107GS









PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

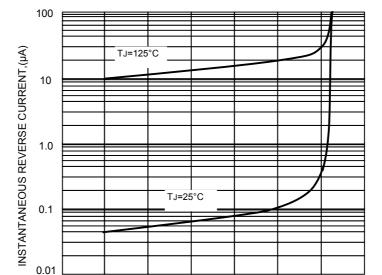


FIG.5-TYPICAL REVERSE CHARACTERISTICS