

(Package: DB)

VI. Bridge Rectifier

1.5A Glass Passivated Bridge Rectifier DB151G~DB157G

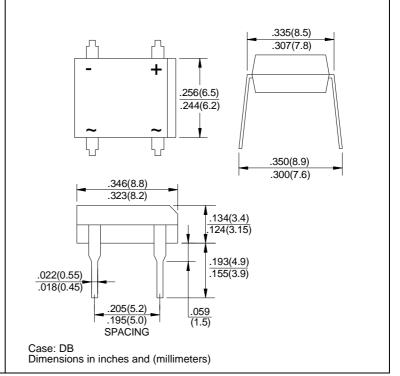
FEATURES

- · 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



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%.

Single phase nair-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.									
Characteristic	Symbol	DB 151G	DB 152G	DB 153G	DB 154G	DB 155G	DB 156G	DB 157G	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	1.5							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50							Amps
Maximum forward voltage at 1.5A 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^2s	
Typical junction capacitance per element (Note 1)	Cj	25						ΡF	
Typical thermal resistance (Note 2)	Rth-JA	40						/ W	
Operating temperature range	Tj	-55 to +150							
Storage temperature range	Tstg	-55 to +150							

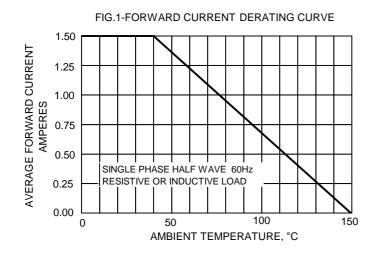
Note:

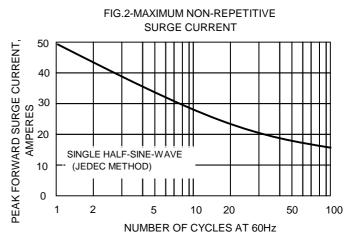
^{1.} Measured at 1.0MHz and applied reverse voltage of 4.0V DC

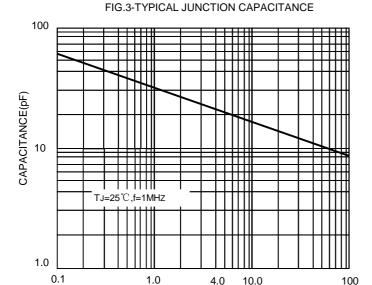
^{2.} Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5" (13*13mm) copper pads



Ratings and Characteristic Curves of DB151G~DB157G

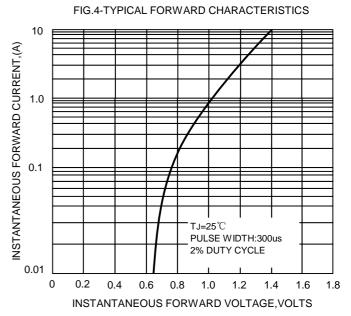




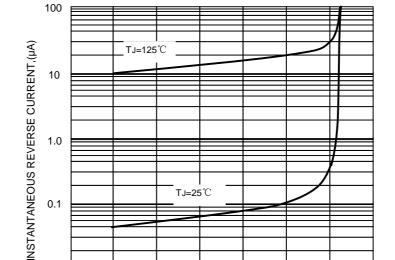


REVERSE VOLTAGE, (VOLTS)

0.01



140



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

FIG.5-TYPICAL REVERSE CHARACTERISTICS