

DB151GS THRU DB157GS

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

DBS

FEATURES:

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation

MECHANICAL DATA

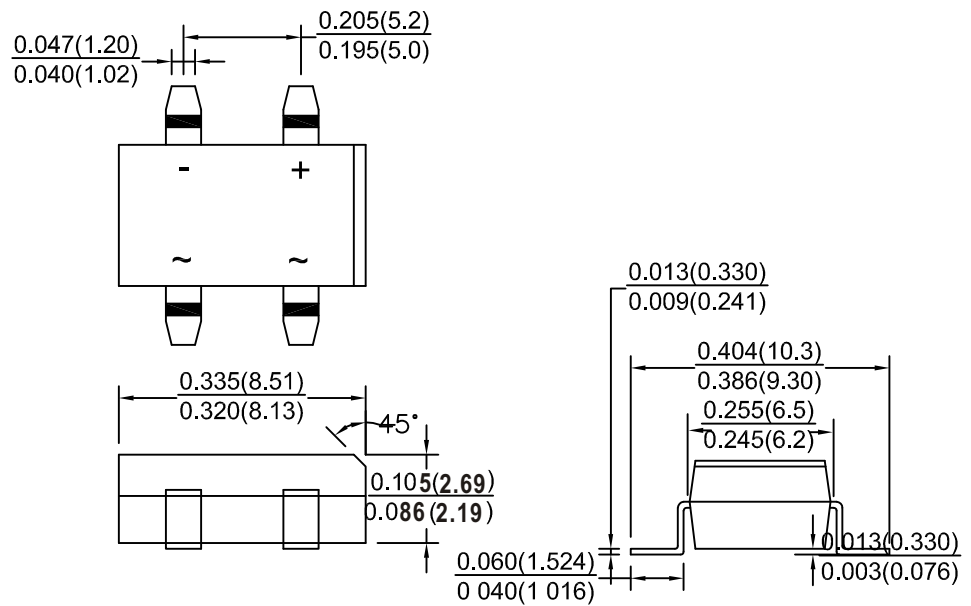
Case : Molded plastic

Terminals : Plated terminals, solderable per MIL-STD-202, Method 208

Polarity : Polarity symbols marked on body

Mounting Position : Any

Handling Precaution : None



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	DB 151GS	DB 152GS	DB 153GS	DB 154GS	DB 155GS	DB 156GS	DB 157GS	UNITS
	Marking	DB 151G	DB 152G	DB 153G	DB 154G	DB 155G	DB 156G	DB 157G	
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 at $T_a=40^\circ\text{C}$	I_o	1.50							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	50.0							Amps
Rating for fusing($t<8.3\text{ms}$)	I^2t	10.0							A^2sec
Maximum instantaneous forward voltage drop at 1.5 A	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	5.0 500.0							μA
Typical junction capacitance	C_j	14.0							pF
Typical thermal resistance	R_{th-JA}	36.0							$^\circ\text{C/W}$
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES DB151GS THRU DB157GS

