DB101G THRU DB107G

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES:

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

MECHANICAL DATA

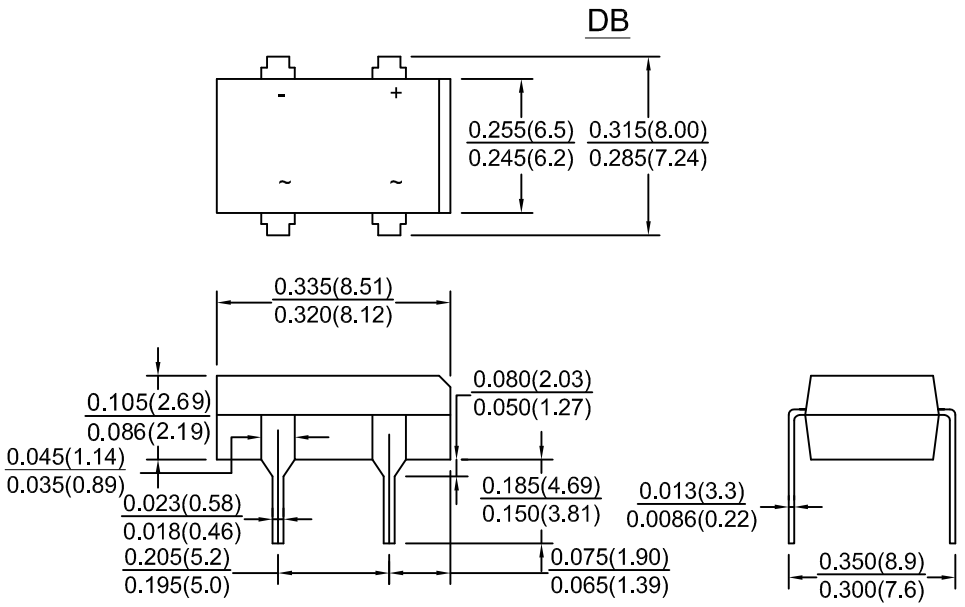
Case : Molded plastic

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 101G	DB 102G	DB 103G	DB 104G	DB 105G	DB 106G	DB 107G	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 at Ta=40° C	I_O	1.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	30							Amps
Maximum instantaneous forward voltage drop at 1.0 A	V_F	1.1							Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=125° C	I_R	5.0 500.0							μ A
Typical junction capacitance	C_j	25							pF
Typical thermal resistance	R_{th}-JA	20.0							° C/W
Operating junction and storage temperature range	T_j,T_{stg}	-65 to +150							° C

RATINGS AND CHARACTERISTIC CURVES DB101G THRU DB107G

FIG.1-DERATING CURVE FOR OUTPUT RCTIFIER CURRENT

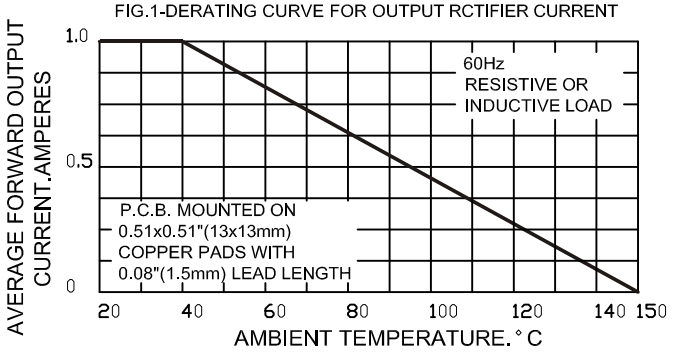


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

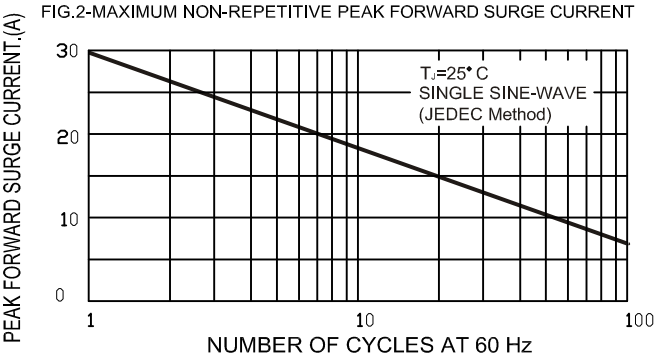


FIG.3- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

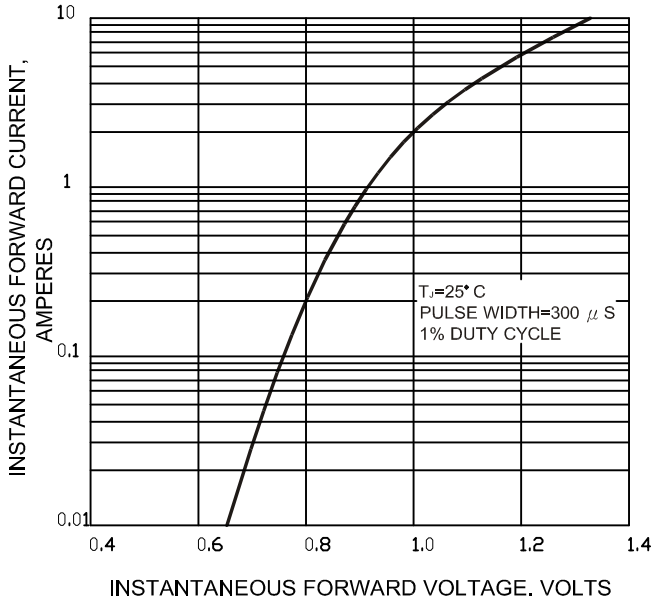


FIG.4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER BRIDGE ELEMENT

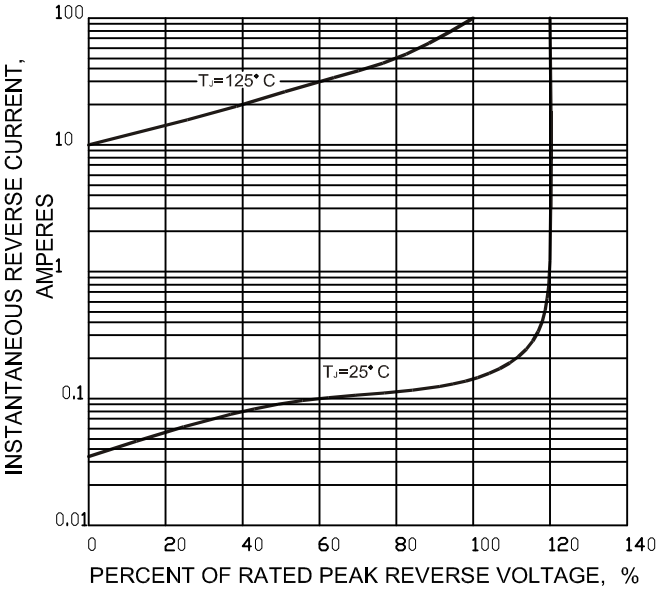
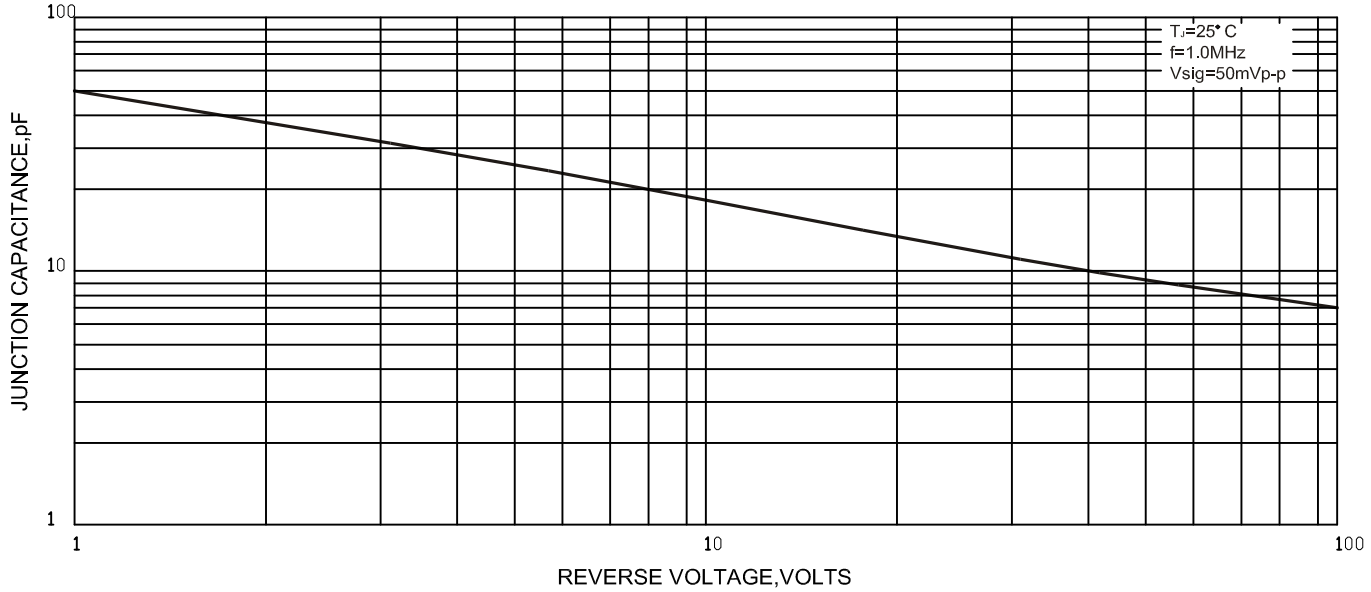



FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT