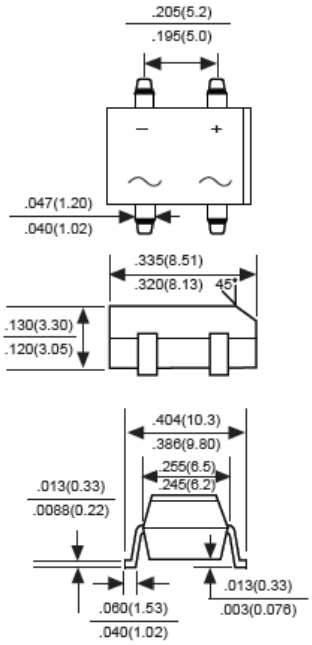
DB101S THRU DB107S

Voltage Range - 50 to 1000 Volts Current - 1.0 Ampere

DBS



Dimensions in inches and (millimeters)

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed:250*/10 seconds / 0.375"(9.5mm) led length at 5 lbs., (2.3kg)tension
- Small size, simple installation Leads solderable per MIL-STD-202,Method 208
- High surge current capability

MECHANICAL DATA

- **Case**: Molded plastic body
- **Terminals**: Plated leads solderable per MIL-STD-750,Method 2026
- **Polarity**: Polarity symbols marked on case
- **Mounting Position**: Any
- **Weight**:0.02 ounce, 0.4 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Catalog Number	*SYMBOLS*	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNITS
Maximum repetitive 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℃	$I_{F(AV)}$	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps
Maximum instantaneous forward voltage drop per birdge element at 1.0A	V_F	1.1							Volts
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=125℃	I_R	10 500							μA μA
Operating temperature range	T_J	-55 to +150							°C
storage temperature range	T_{STG}	-55 to +150							°C

NOTES: DBS for surface mount package.

RATINGS AND CHARACTERISTIC CURVES DB101S THRU DB107S

FIG. 1- MAXIMUN DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

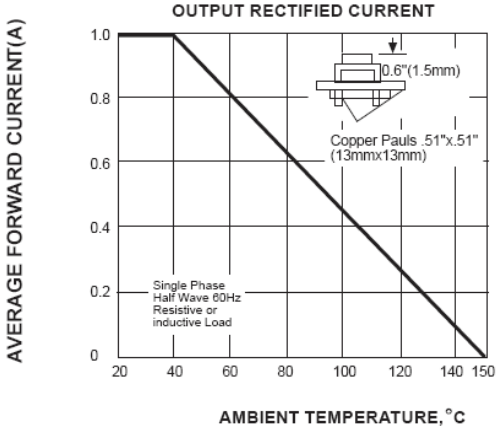


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

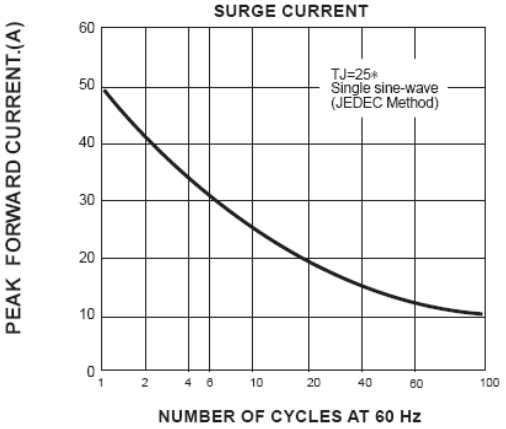


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

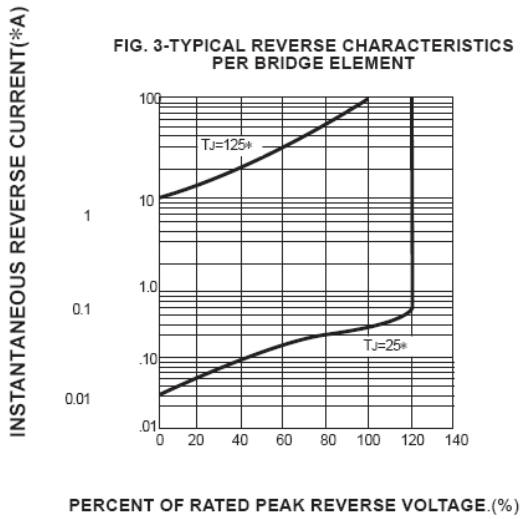


FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMNT

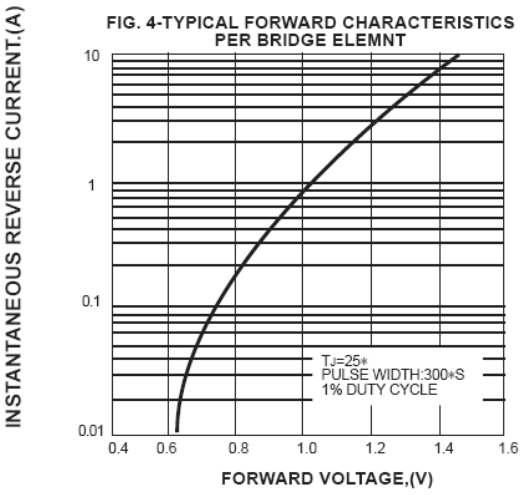


FIG. 3-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT