



SURFACE MOUNT BRIDGE

DB101S THRU DB107S
DF005S THRU DF10S

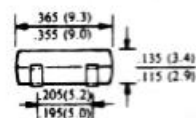
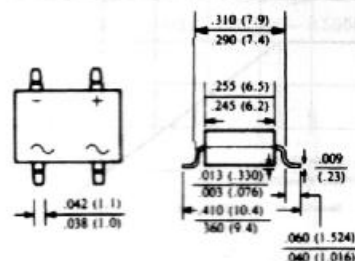
FEATURES

- Glass passivated chip junction
- Ideal for surface mounted applications
- Low leakage
- High forward surge current capability.
- High temperature soldering guaranteed; 260°C/10 seconds at terminals.

MECHANICAL DATA

- Case: Molded plastic body
- Epoxy; UL94V-0 rate flame retardant.
- Polarity: Molded on body.
- LeadP: Plated terminals solderable per MIL-STD-202E method 208C
- Weight: 0.04 ounce, 1.0 gram

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load derate current by 20%.

	SYMBOLS	DB101S DF005S	DB102S DF01S	DB103S DF02S	DB104S DF04S	DB105S DF05S	DB106S DF06S	DB107S DF10S	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 Output Current, 0.06" (1.5mm) lead length at $T_A = 40^\circ\text{C}$ (Note 2)	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	10							A^2s
Maximum Instantaneous Forward Voltage Drop per bridge element at 1.0A	V_F	1.1							Volts
Maximum Reverse Current at rated DC blocking voltage per element	$T_A = 25^\circ\text{C}$	I_R							μAmps
	$T_A = 125^\circ\text{C}$	0.5							mAmps
Typical Junction Capacitance (NOTE 1)	C_J	25							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	40							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150							$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on P. C. B. with 0.51" $\times$ 0.51" (13 $\times$ 13mm) copper pads.

FIG. 1- DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

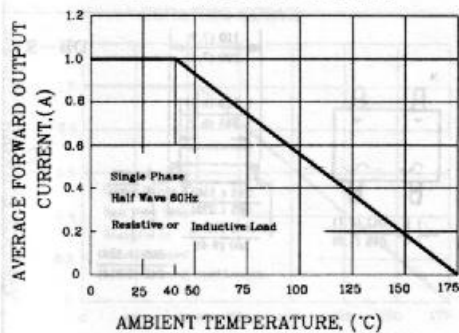


FIG. 2- MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT

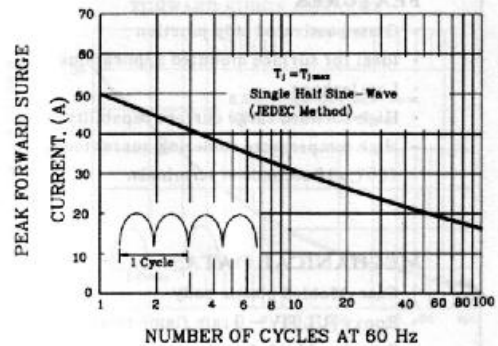


FIG. 3- TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

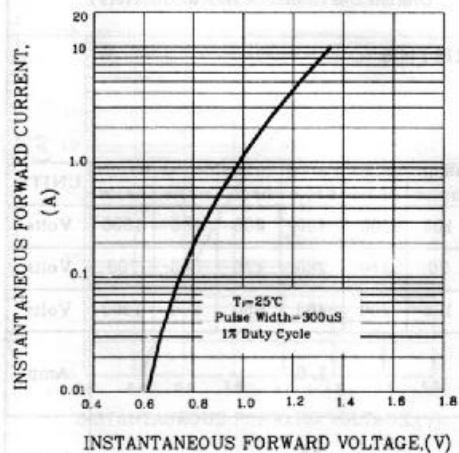


FIG. 4- TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

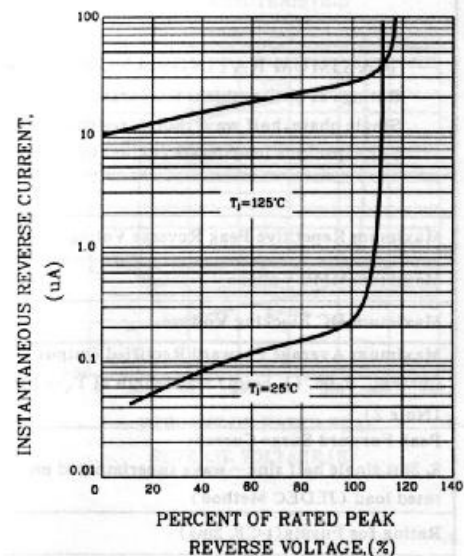


FIG. 5- TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT

