

GLASS PASSIVATED SILICON BRIDGE RECTIFIERS

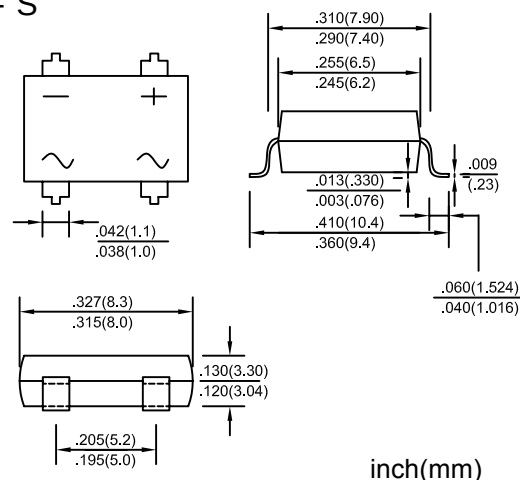
VOLTAGE RANGE: 80 -- 1000 V

CURRENT: 0.8 A

FEATURES

- ◇ Rating to 1000 V
- ◇ Low forward voltage drop
- ◇ Small size, plastic case
- ◇ Glass passivated junction
- ◇ Weight: 0.016 ounces, 0.45grams
- ◇ Mounting position: Any

DB - S



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		B40S	B80S	B125S	B250S	B380S	B500S	UNITS
Maximum alternating input voltage	V_{VRMS}	50	110	170	420	560	700	V
Repetitive peak reverse voltage	V_{RRM}	80	160	250	600	800	1000	V
Maximum average forward rectified output current @ $T_c = 50^\circ\text{C}$	$I_{(AV)}$	0.8						A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	40						A
Maximum forward voltage drop per element at 0.4 A	V_F	1.1						V
Maximum reverse current at rated DC blocking voltage per element @ $T_A = 25^\circ\text{C}$	I_R	10.0						μA
@ $T_A = 125^\circ\text{C}$		0.5						mA
Thermal resistance junction to ambient air	$R_{\theta JA}$	60						K/W
Operating temperature range	T_j	- 55 --- + 150						$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 --- + 150						$^\circ\text{C}$

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FIG.1 -- FORWARD DERATING CURVE

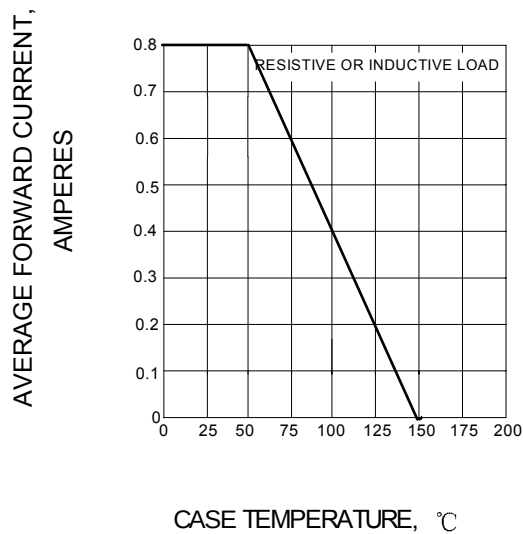


FIG.2 -- PEAK FORWARD SURGE CURRENT

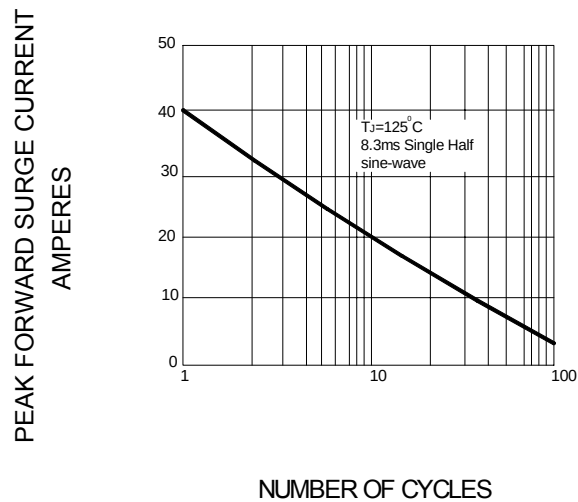


FIG.3 -- TYPICAL FORWARD CHARACTERISTICS

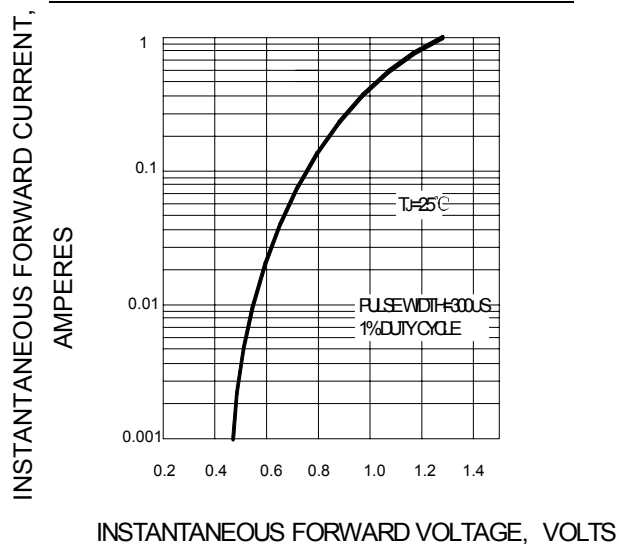


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC

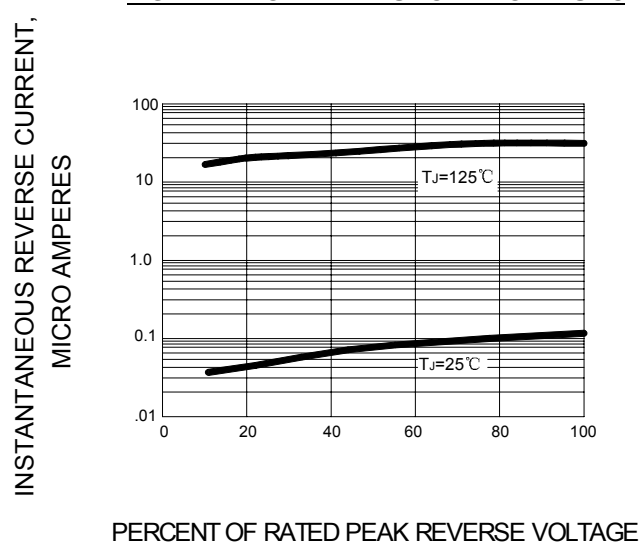


FIG.5 -- TYPICAL JUNCTION CAPACITANCE PER ELEMENT

