B40S-B500S

Glass Passivated Silicon Bridge Rectifiers

VOLTAGE RANGE: 80 -- 1000 V

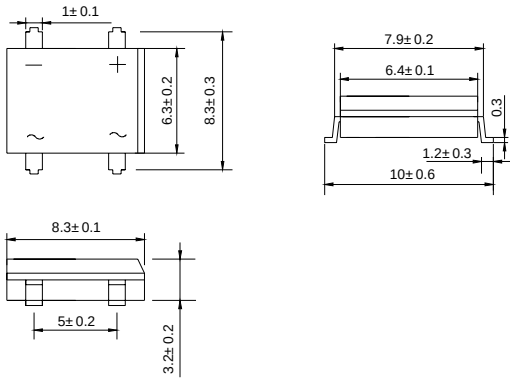
CURRENT: 0.8 A

DB-S



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



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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 @Tc= 50℃ rectified output current	$I_{(AV)}$	0.8						A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	40						A
Maximum forwand voltage drop per element at 0.4 A	V_F	1.1						V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage	I_R	10.0						μ A
per element @T_A=125℃		0.5						mA
Thermal resistance junction to ambient air	$R_{\theta JA}$	60						K/W
Operating temperature range	T_j	- 55 --- + 150						℃
Storage temperature range	T_{STG}	- 55 --- + 150						℃

B40S-B500S

Glass Passivated Silicon Bridge Rectifiers

Ratings AND Charactieristic Curves

FIG.1 --FORWARD DERATING CURVE

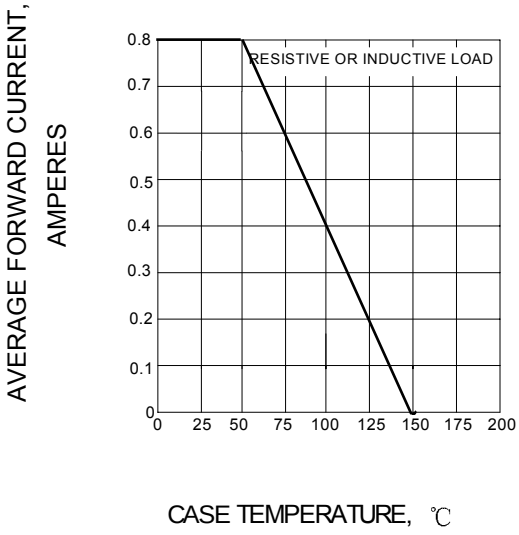


FIG.2 -- PEAK FORWARD SURGE CURRENT

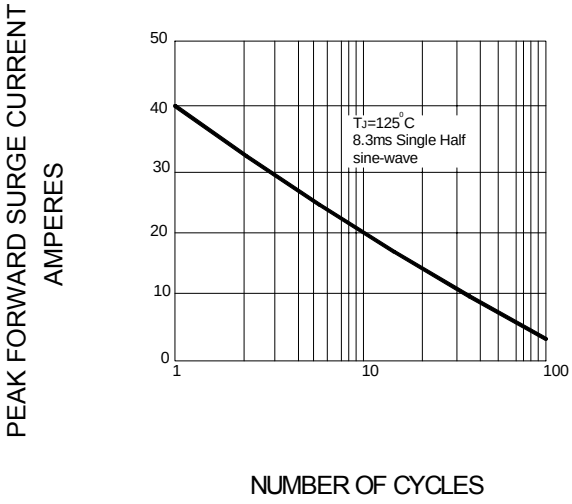


FIG.3 -- TYPICAL FORWARD CHARACTERISTICS

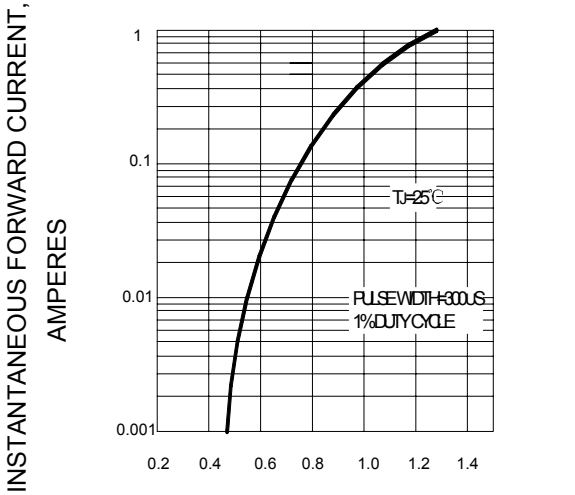


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC

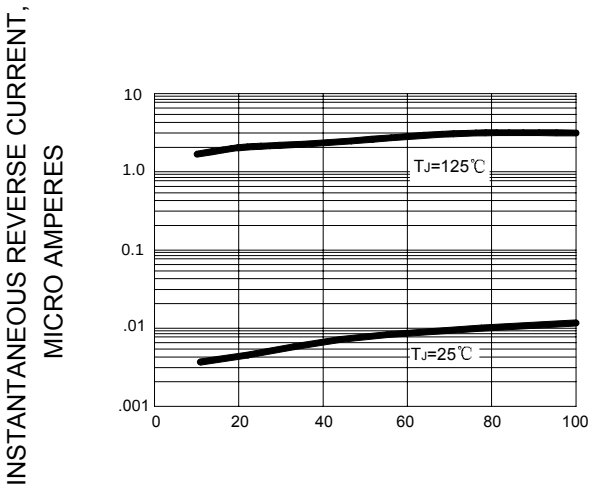


FIG.5 -- TYPICAL JUNCTION CAPACITANCE PERELEMENT

