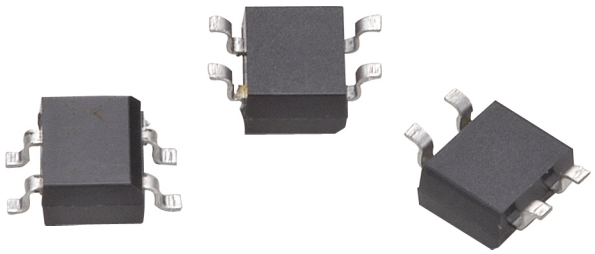
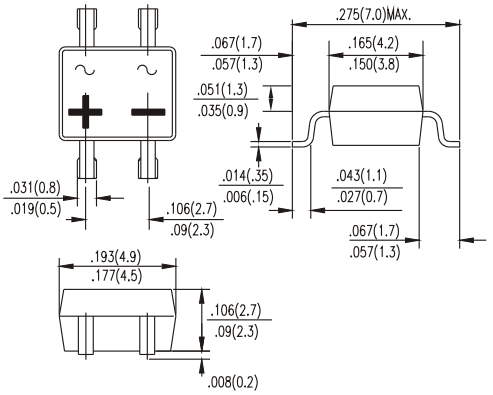
B1S thru B10S

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

CHENG-YI ELECTRONIC



REVERSE VOLTAGE -100 to 1000 Volts
FORWARD CURRENT -0.8 Amperes



FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead in plated copper

MECHANICAL DATA

- Polarity: Symbol molded on body
- Weight: 0.0044 ounces, 0.125 grams
- Mounting position: Any

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%.

		B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @ T_A=40 °C	$V_{(AV)}$	0.8						A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I_{FSM}	30						A
Maximum Forward Voltage at 0.4A DC	V_F	1.0						V
Maximum DC Reverse Current @ T_J=25°C at rated DC Blocking Voltage @ T_J=125°C	I_R	5 500						μA
Typical Junction Capacitance per element (Note2)	C_J	15						pF
Typical Thermal Resistance (Note3)	$R_{\theta JA}$	75						°C/W
Operating Temperature Range	T_J	-55 to +150						°C
Storage Temperature Range	T_{STG}	-55 to +150						°C

NOTES: 1.Mounted on P.C. Board.
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Ambient.

B1S thru B10S

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

CHENG-YI ELECTRONIC

RATING AND CHARACTERISTICS CURVES
B1S THRU B10S

FIG. 1 - FORWARD CURRENT DERATING CURVE

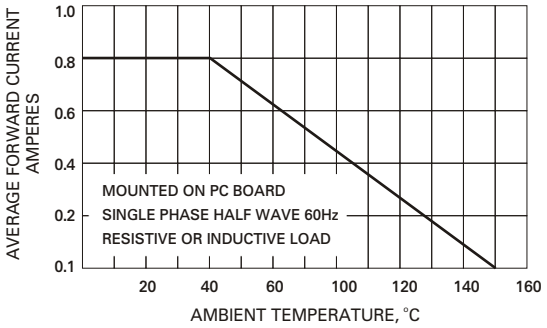


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

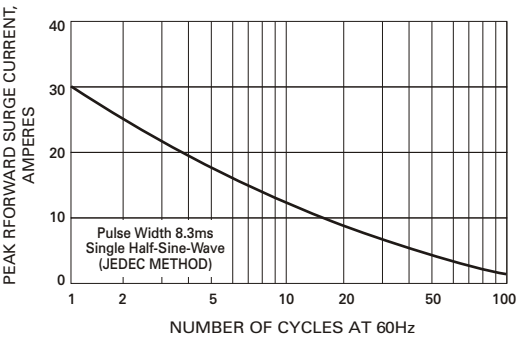


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

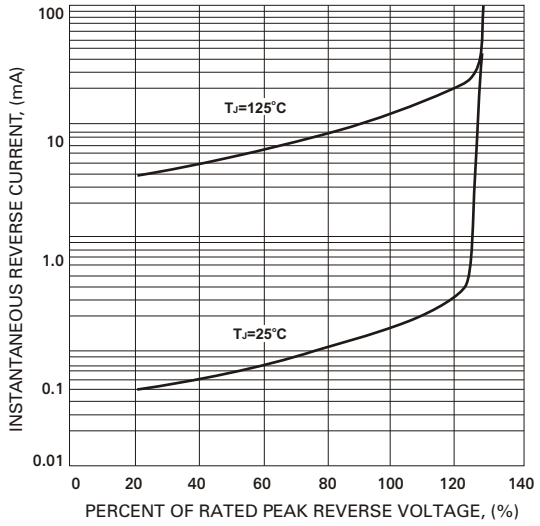


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

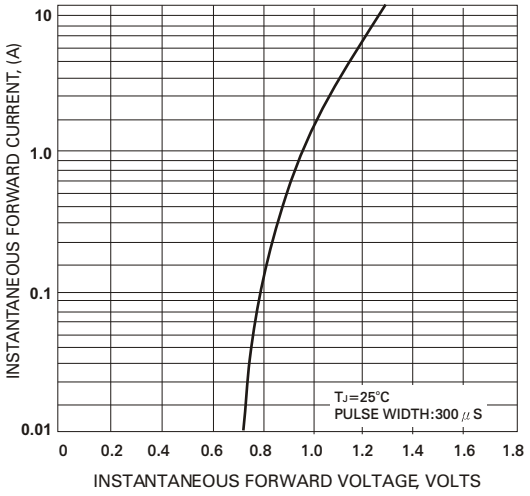


FIG. 3 - TYPICAL JUNCTION CAPACITANCE