

BR805 THRU BR810

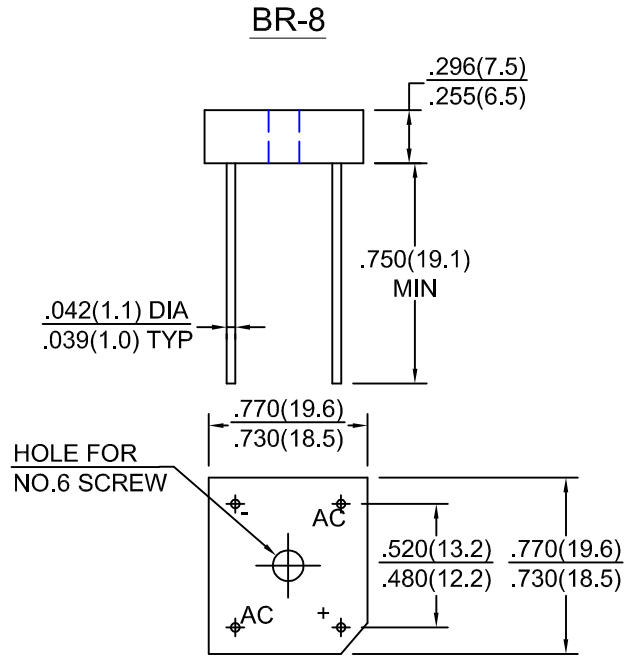
SINGLE PHASE SILICON BRIDGE RECTIFIERS

FEATURES:

- Low forward voltage drop
- Low leakage current

MECHANICAL DATA

Case : Molded plastic body
 Polarity : marked on body
 Mounting position : Any
 Mounting : Hole thru for # 6 screw



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	BR 805	BR 81	BR 82	BR 84	BR 86	BR 88	BR 810	Units
Maximum recurrent 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 .375"(9.5mm) lead length at T _c =50° C	I _O	8.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	250							Amps
Maximum instantaneous forward voltage drop per bridge element at 4.0 A DC	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	10 200							μ A
Operating temperature range	T _j	-65 to +125							° C
Storage temperature range	T _{stg}	-65 to +150							° C

RATINGS AND CHARACTERISTIC CURVES BR805 THRU BR810

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

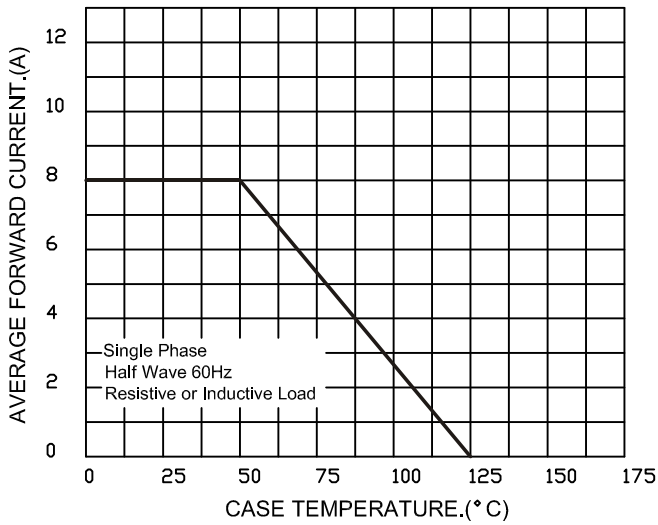


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

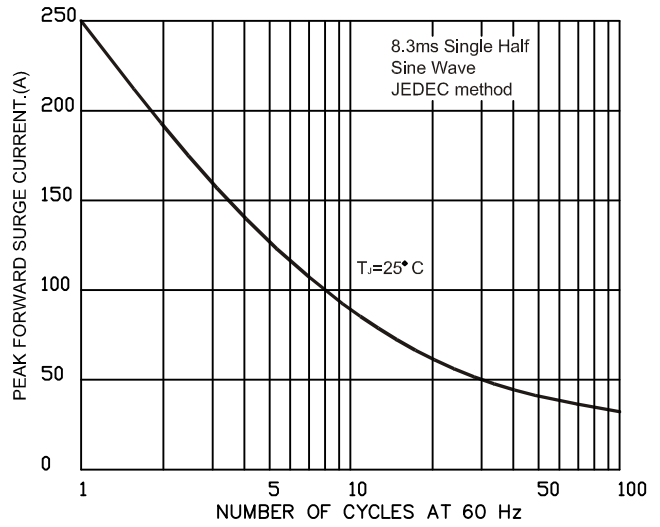


FIG.3-TYPICAL FORWARD CHARACTERISTICS

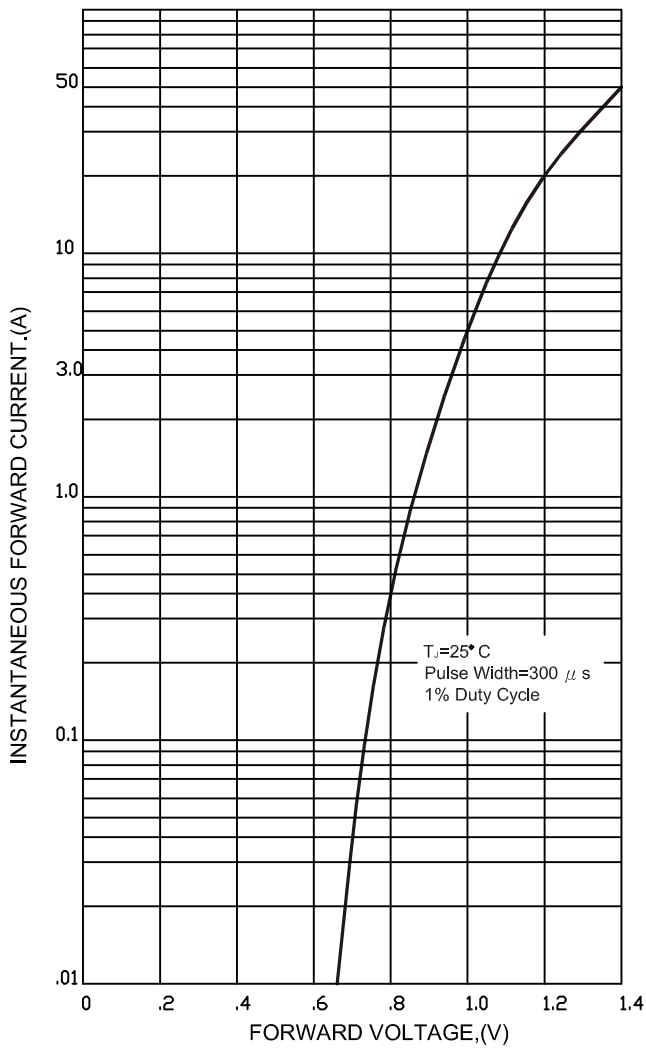


FIG.4-TYPICAL REVERSE CHARACTERISTICS

