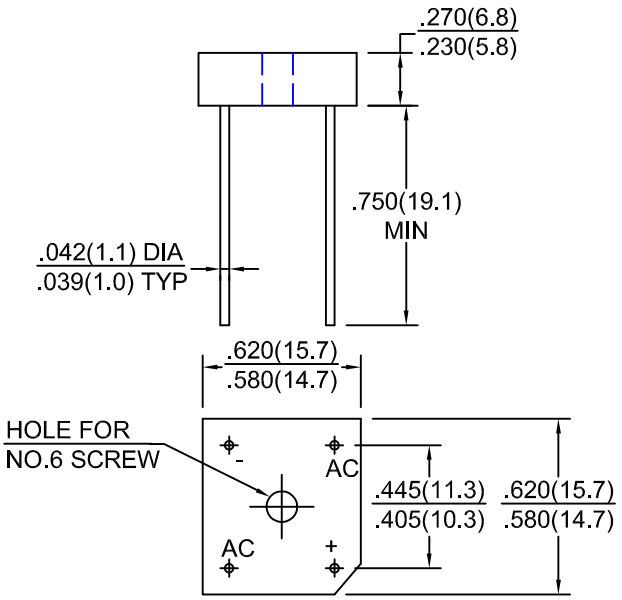
BR305 THRU BR310

SINGLE PHASE SILICON BRIDGE RECTIFIERS

FEATURES:

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current

BR-3



Dimensions in inches and (millimeters)

MECHANICAL DATA

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

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 305	BR 31	BR 32	BR 34	BR 36	BR 38	BR 310	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 Tc=50 ° C	I_O	3.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	50							Amps
Maximum instantaneous forward voltage drop per bridge element at 1.5 A	V_F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage Tc=25 ° C / Tc=100 ° C	I_R	10 / 100							μ A
Operating temperature range	T_j	-65 to +125							° C
Storage temperature range	T_{stg}	-65 to +150							° C

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

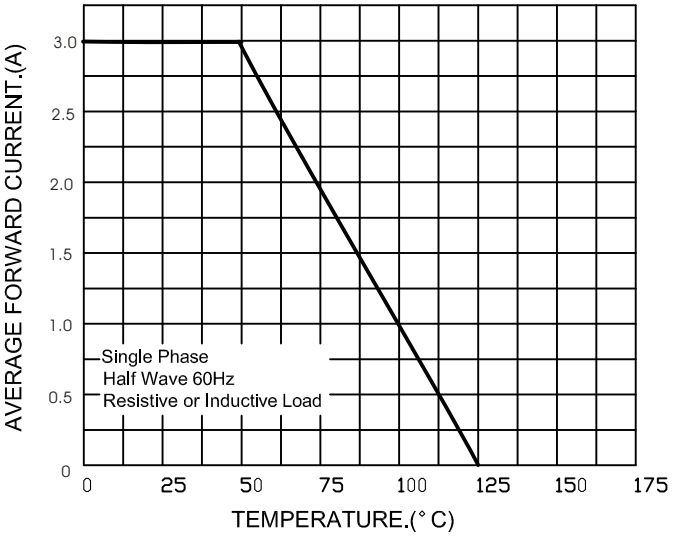


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

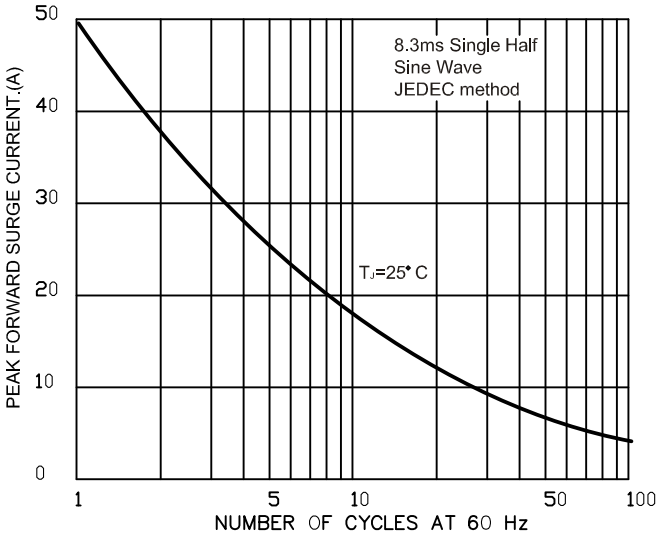


FIG.3-TYPICAL FORWARD CHARACTERISTICS

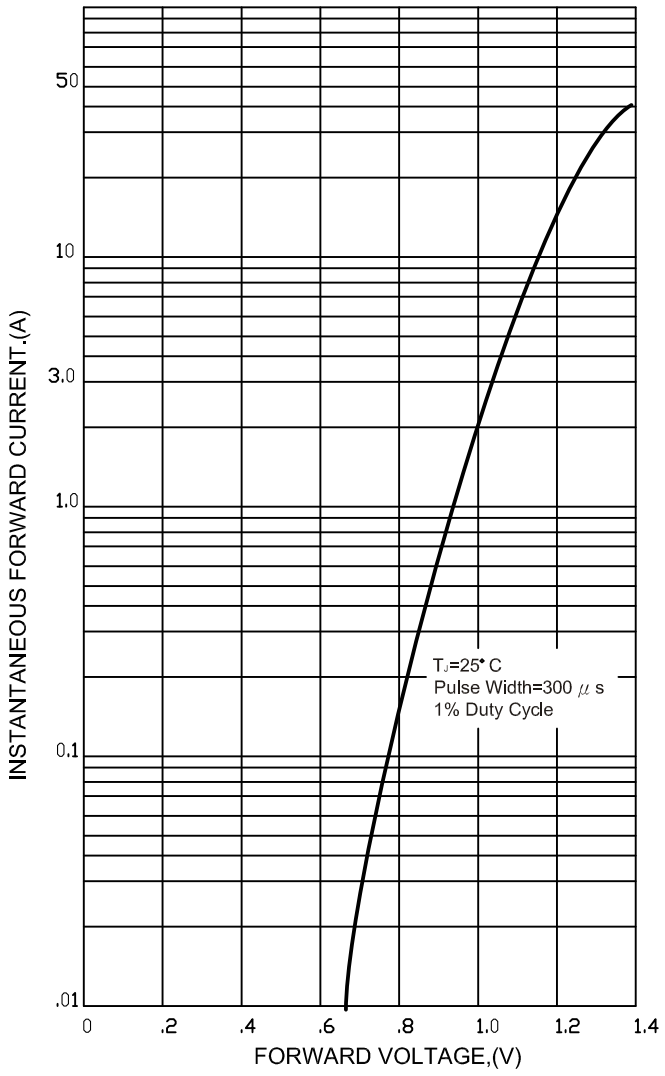


FIG.4-TYPICAL REVERSE CHARACTERISTICS