

BR 305 THRU BR 310

SINGLE PHASE SILICON BRIDGE RECTIFIERS

FEATURES:

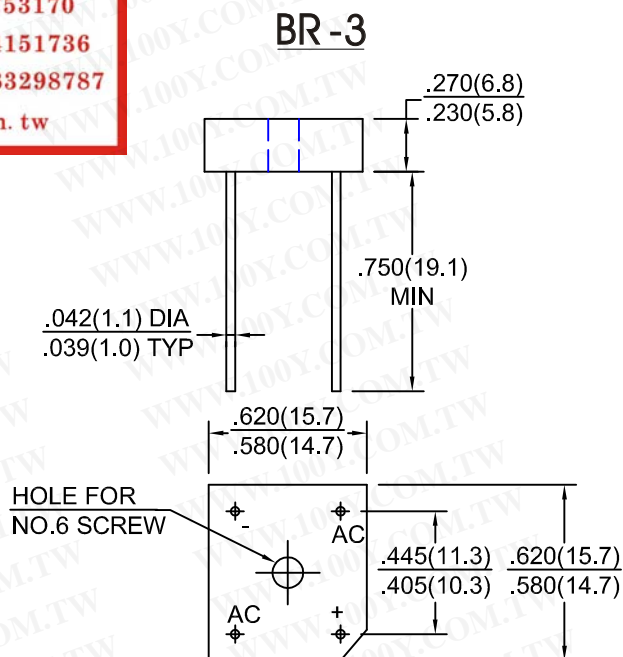
- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current
- Mounting : Hole thru for #6 screw
- Mounting position :Any

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

MECHANICAL DATA

Case : Molded plastic body

Lead : As marked



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 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 T _c =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 T _c =25° C at rated DC blocking voltage T _c =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

RATINGS AND CHARACTERISTIC CURVES BR 305 THRU BR310

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

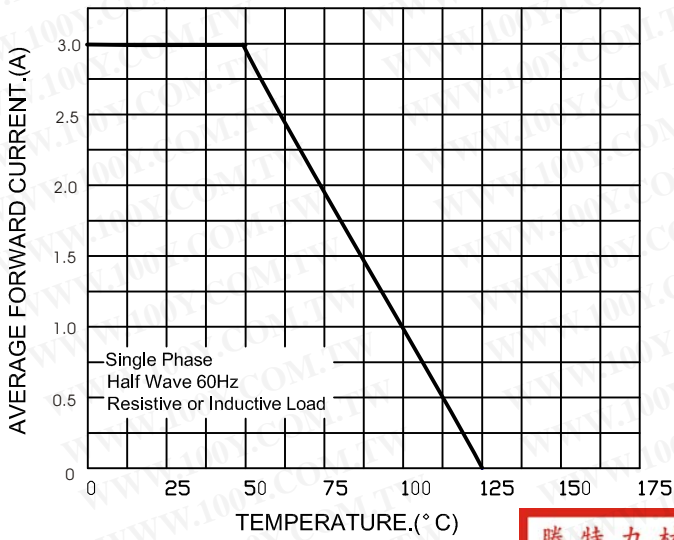
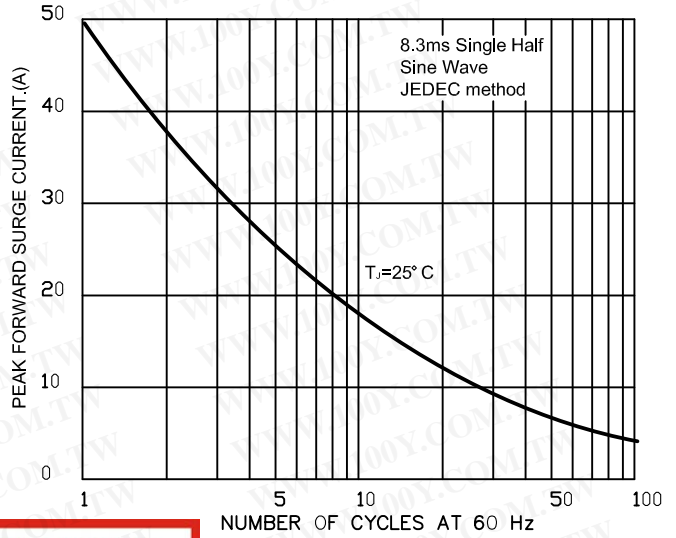


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.3-TYPICAL FORWARD CHARACTERISTICS

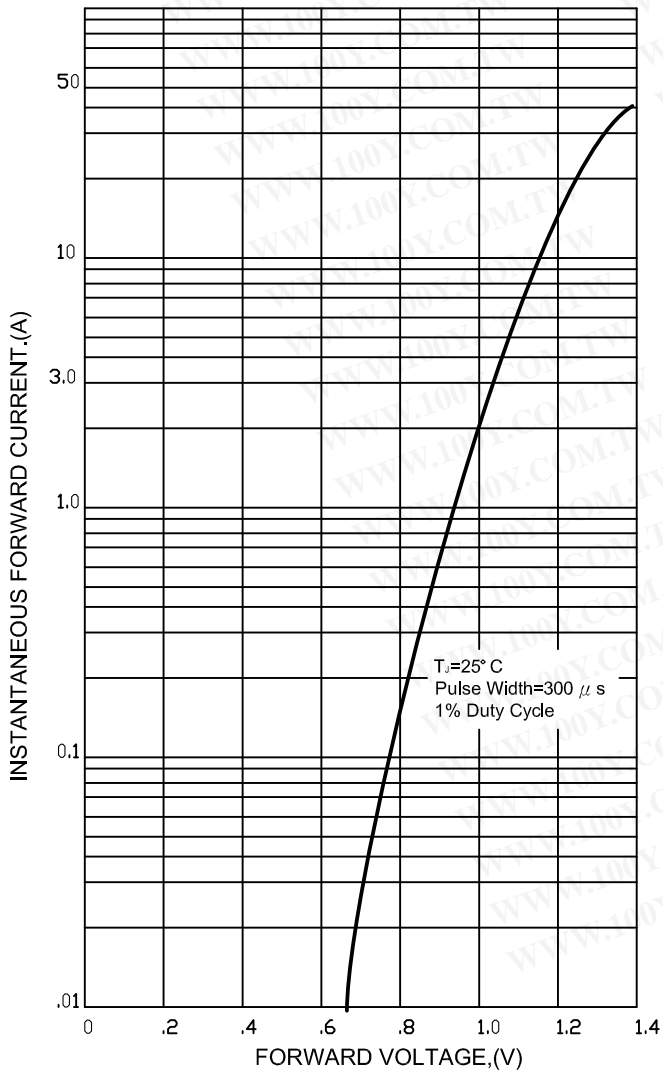


FIG.4-TYPICAL REVERSE CHARACTERISTICS

