

SUPER FAST GLASS PASSIVATED RECTIFIERS

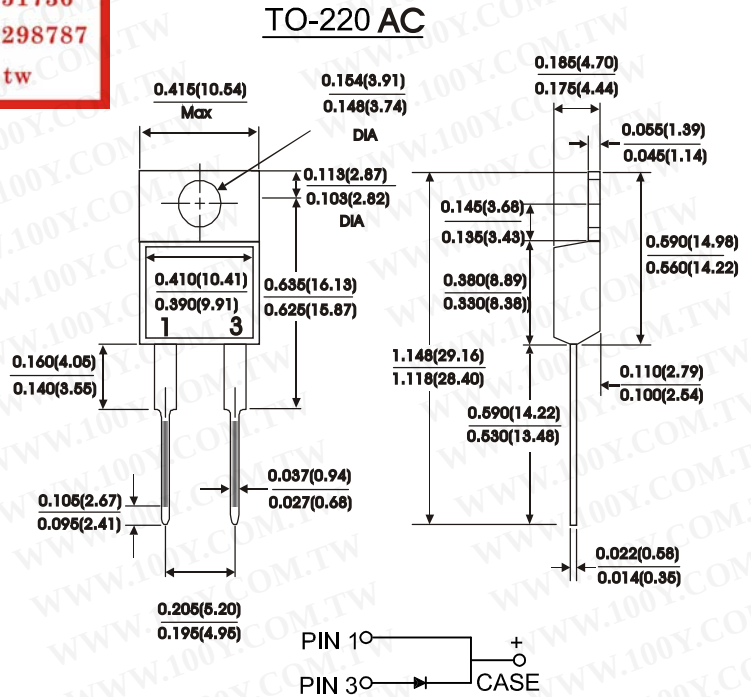
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High reliability
- Low forward voltage drop
- High surge current capability
- High temperature soldering guaranteed : 250°C /10 second,0.25"(6.35mm)from case

MECHANICAL DATA

Case : JEDEC TO-220AC molded plastic
 Terminals : Leads solderable per MIL-STD-750 Method 2026
 Position : As marked
 Mounting Position : Any
 Mounting Torque : 5 in - lbs.max
 Weight : 0.08 ounce,2.24grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	SF 8005	SF 801	SF 802	SF 803	SF 804	SF 806	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	Volts
Maximum average forward rectified current at $T_c=100^{\circ}C$	$I_{(AV)}$	8.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125						Amps
Maximum instantaneous forward voltage $I_F=8.0A$	V_F	1.0			1.30		1.70	Volts
Maximum DC reverse current at rated DC blocking voltage $T_c=25^{\circ}C$ $T_c=125^{\circ}C$	I_R	10.0 500.0						μA
Typical reverse recovery time(NOTE 1)	T_{RR}	35						nS
Typical junction capacition(NOTE 2)	C_J	80					60	P_F
Operating temperature range	T_J	-55to+ 150						$^{\circ}C$
Storage temperature range	T_{Stg}	-55to+ 150						$^{\circ}C$

NOTES:

(1)Reverse Recovery Test CONDITION : $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

(2)Measured at 1MHZ and reverse Voltage of 4.0V

RATINGS AND CHARACTERISTIC CURVES SF8005 THRU SF806

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

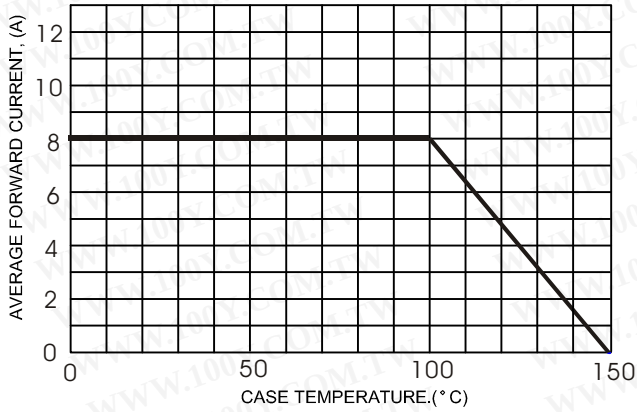


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

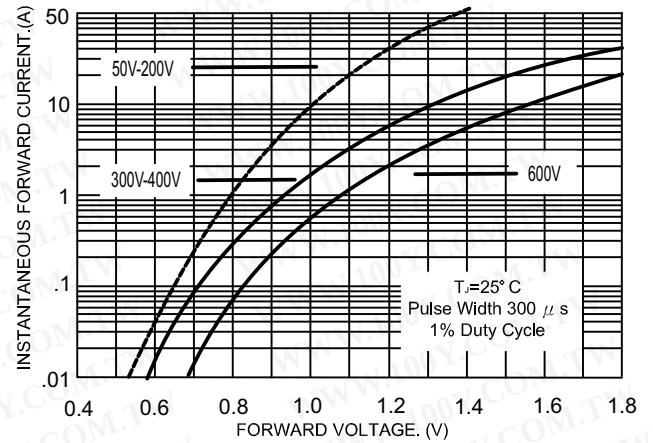


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

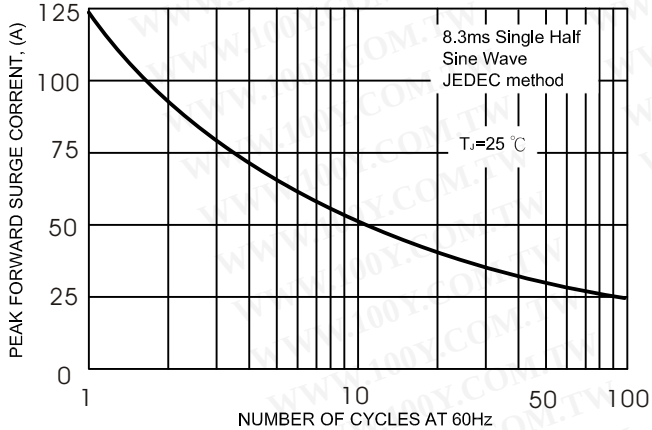


Figure 6 GR1 Test Circuit

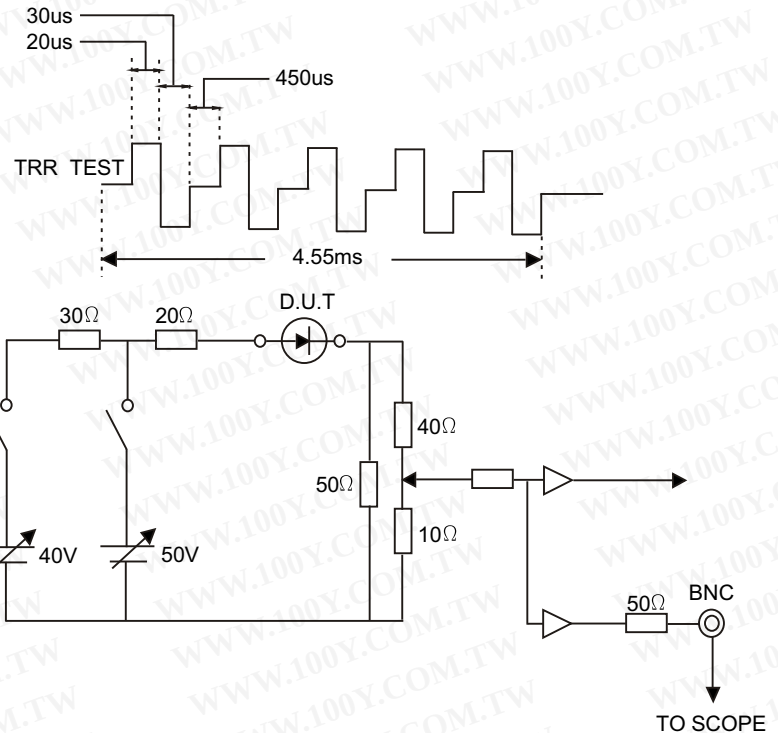


FIG.4- TYPICAL JUNCTION CAPACITANCE

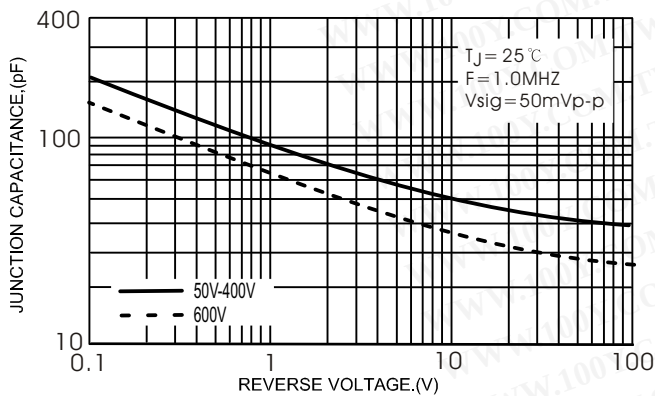
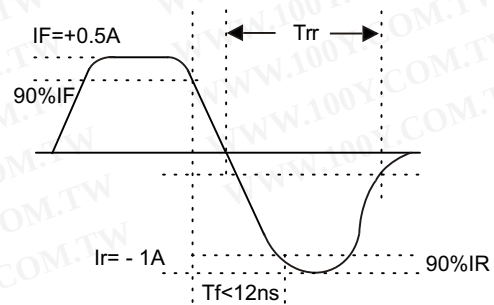
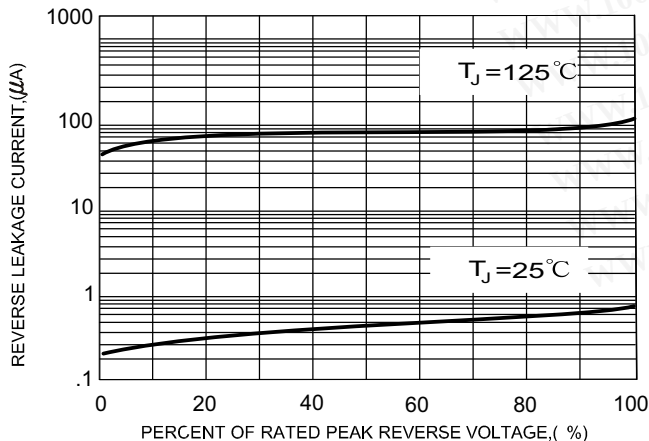


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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