

SUPER FAST GLASS PASSIVATED RECTIFIERS

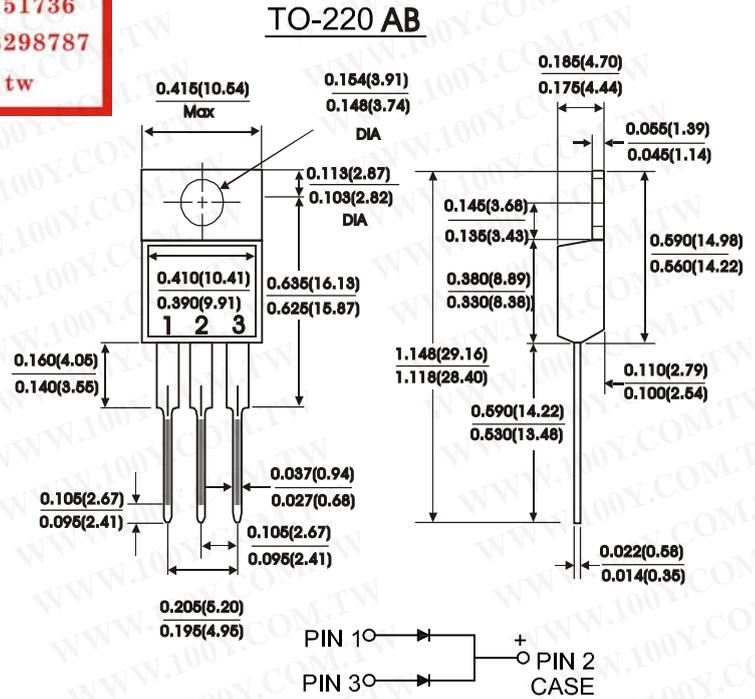
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Ideally suited for freewheeling diode power factor correction applications
- Excellent high temperature switching
- Optimized to reduce switching losses
- High temperature soldering guaranteed : 250°C /10 second,0.25"(6.35mm)from case

MECHANICAL DATA

Case : JEDEC TO-220AB molded plastic
 Terminals : Leads solderable per MIL-STD-750 Method 2026
 Position : As marked
 Mouncting Position : Any
 Mouncting Torquce : 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 8005CT	SF 801CT	SF 802CT	SF 803CT	SF 804CT	SF 806CT	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 $T_c=100^\circ\text{C}$	$I_{(AV)}$	8.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I_{FSM}	100						Amps
Maximum instantaneous forward voltage (Per leg) $I_F=4.0A$	V_F	1.0		1.30		1.70		Volts
Maximum DC reverse current (Per leg) at rated DC blocking voltage $T_c=25^\circ\text{C}$ $T_c=125^\circ\text{C}$	I_R	10.0		500.0				μA
Typical reverse recovery time (NOTE 1)(Per leg)	T_{RR}	35						nS
Typical junction capacitance (NOTE 2)(Per leg)	C_J	50						P_F
Operating temperature range	T_J	-55to +150						$^\circ\text{C}$
Storage temperature range	T_{Stg}	-55to +150						$^\circ\text{C}$

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
 (3)Marking : $\frac{\text{SF8005CT}}{\text{Symbol}} = \frac{\text{SF8005}}{\text{Marking}}$ (Without Marking "CT")

RATINGS AND CHARACTERISTIC CURVES SF8005CT THRU SF806CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

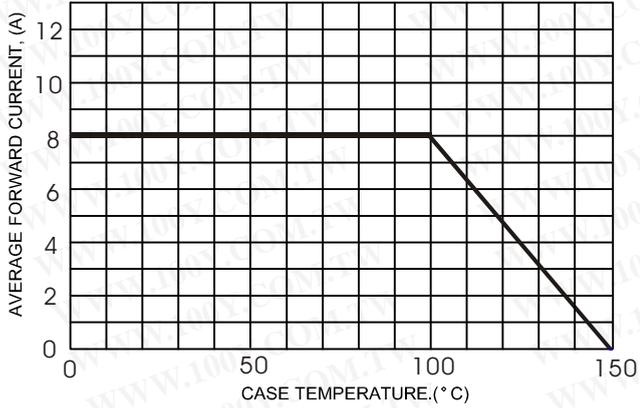


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

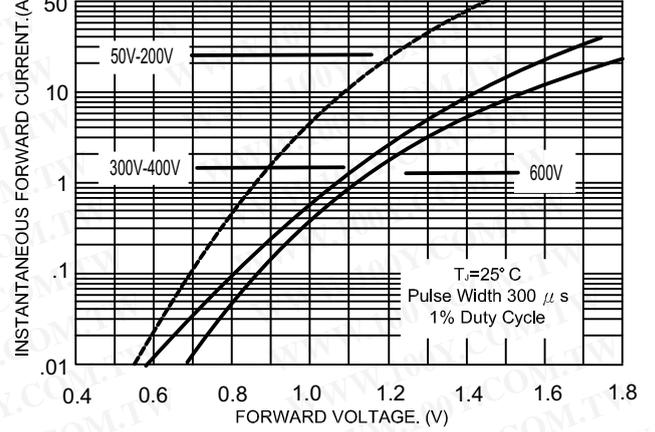


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

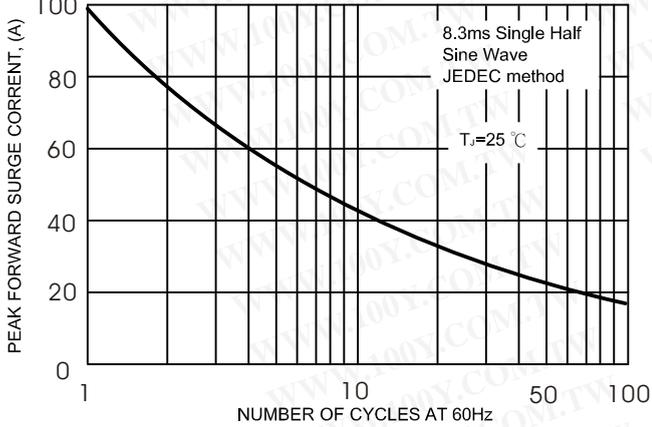


Figure 6 GR1 Test Circuit

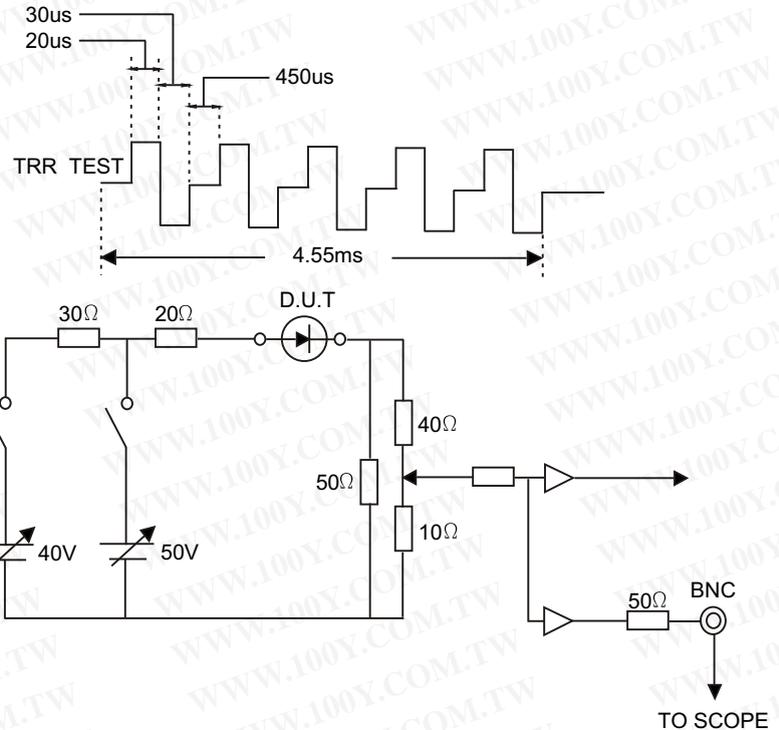


FIG.4- TYPICAL JUNCTION CAPACITANCE

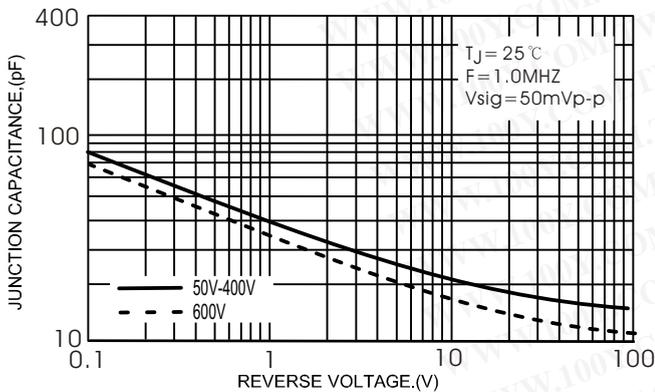
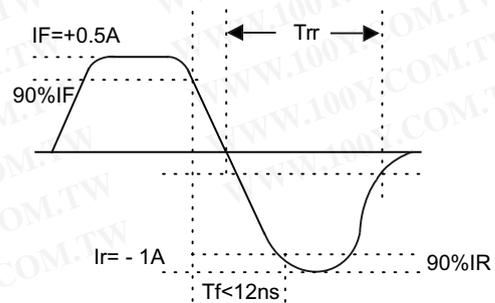
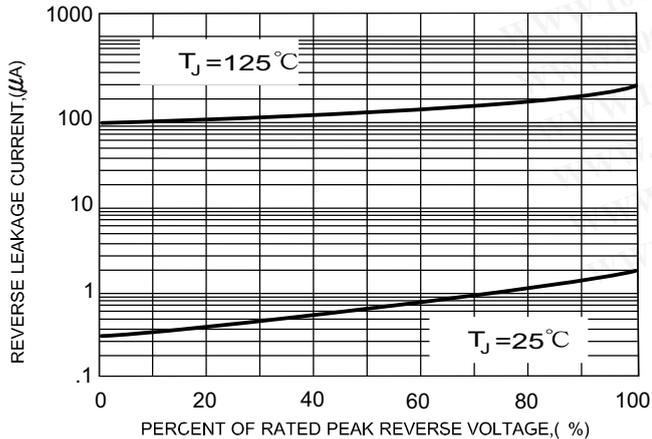


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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