

ULTRA FAST GLASS PASSIVATED RECTIFIERS

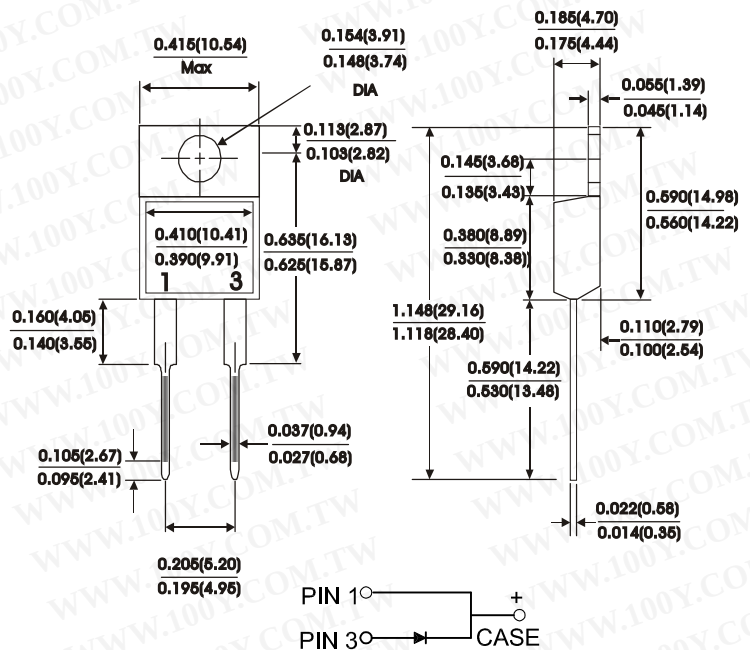
TO-220 AC

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	UF 8005	UF 801	UF 802	UF 803	UF 804	UF 806	UF 808	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	280	560	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	Volts
Maximum average forward rectified current at T _c =100°C	I _O	8.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Per leg)	I _{FSM}	125							Amps
Maximum instantaneous forward voltage (Per leg) I _F =8.0A	V _F	1.0			1.30		1.70		Volts
Maximum DC reverse current (Per leg) T _c =25 °C at rated DC blocking voltage T _c =125°C	I _R	10.0 500.0							μA
Typical reverse recovery time (NOTE 1)(Per leg)	T _{RR}	50			75		100		nS
Typical junction capacitance (NOTE 2)(Per leg)	C _J	80					50		P _F
Operating and storage temperature range	T _J	-55to+ 150							°C
Storage temperature range	T _{stg}	-55to+ 150							°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

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RATINGS AND CHARACTERISTIC CURVES UF8005 THRU UF808

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

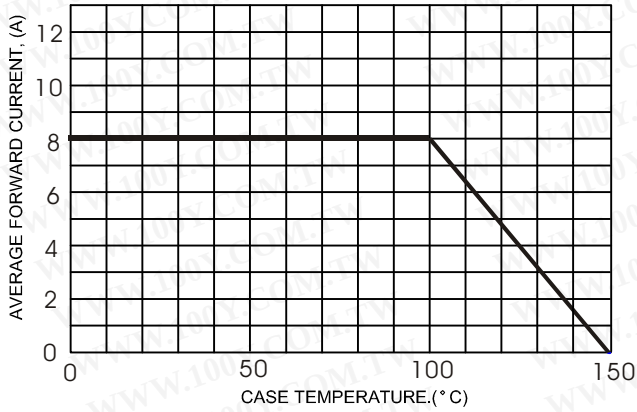


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

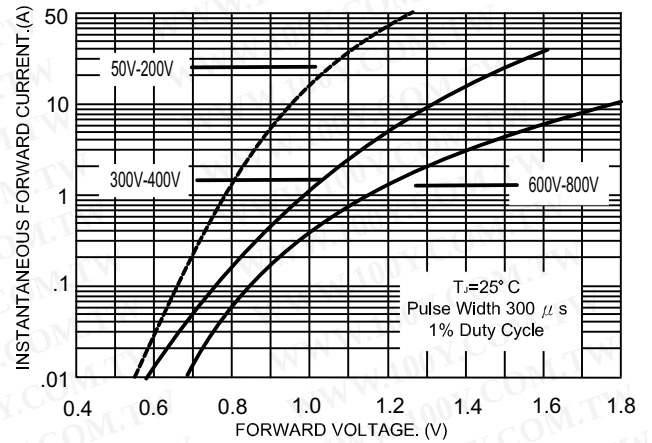


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

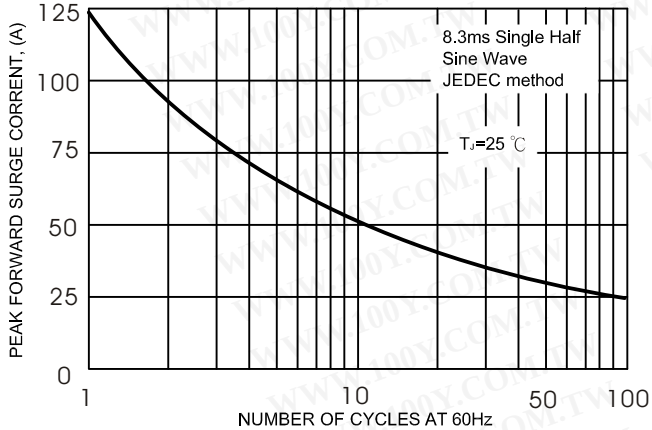


Figure 6 GR1 Test Circuit

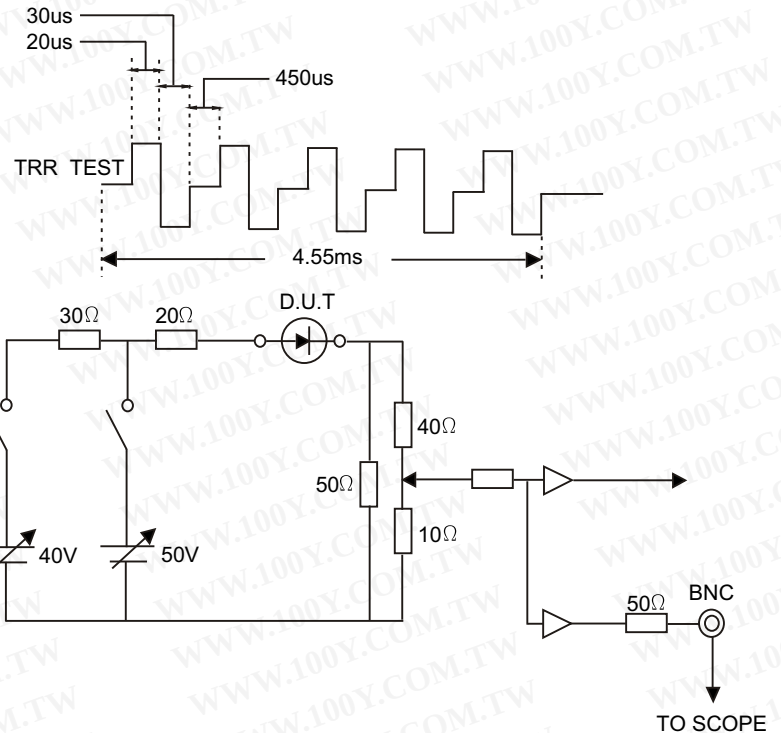


FIG.4- TYPICAL JUNCTION CAPACITANCE

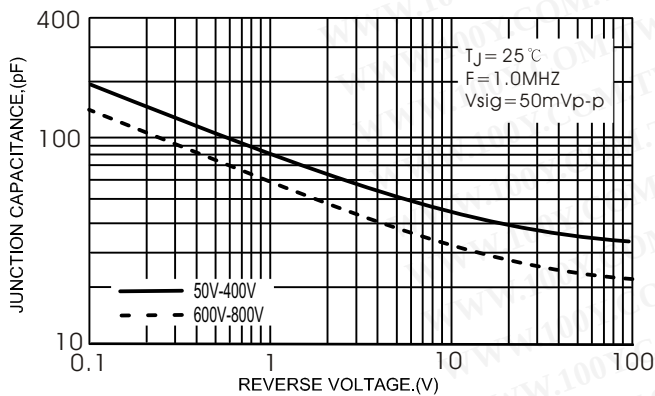
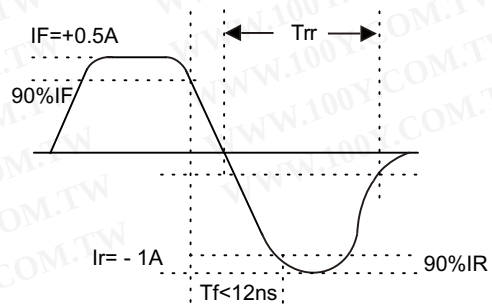
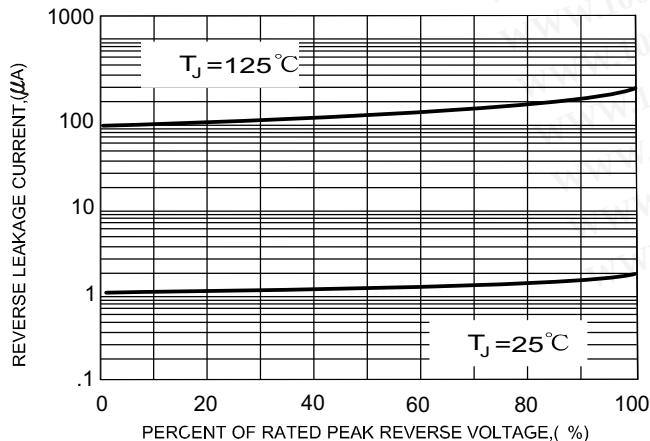


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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