

UF10005CT THUR UF1008CT

ULTRA FAST GLASS PASSIVATED RECTIFIERS

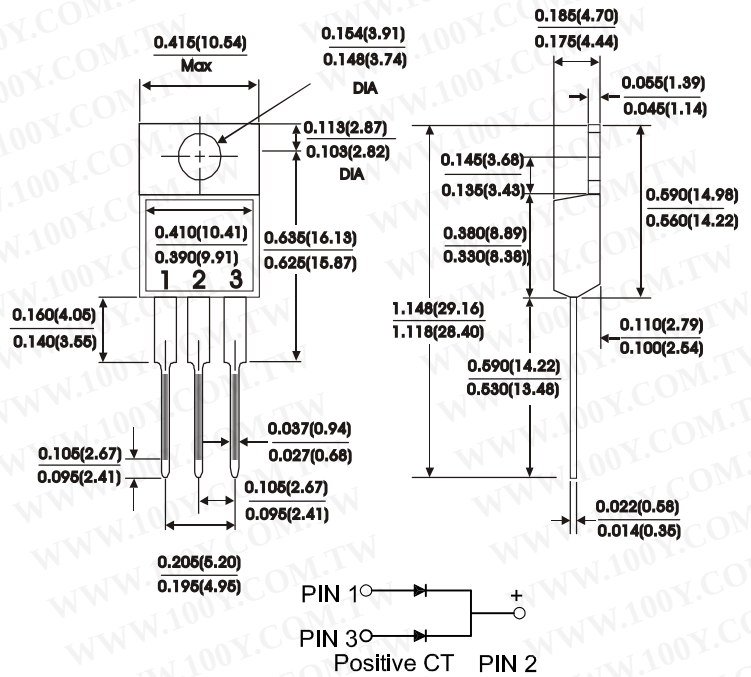
TO-220 AB

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
Mounting Position : Any
Mounting Torque : 5 in - lbs.max
Weight : 0.08 ounce,2.24grams



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 10005CT	UF 1001CT	UF 1002CT	UF 1003CT	UF 1004CT	UF 1006CT	UF 1008CT	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	10.0							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 =5.0A	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					100		nS
Typical junction capacition (NOTE 2)(Per leg)	C _J	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
(3) Marking : UF10005CT = UF10005 (Without Marking "CT")
Symbol Marking

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
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RATINGS AND CHARACTERISTIC CURVES UF10005CT THRU UF1008CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

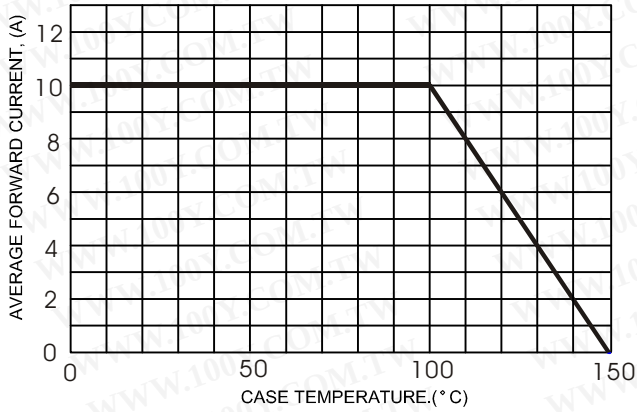


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

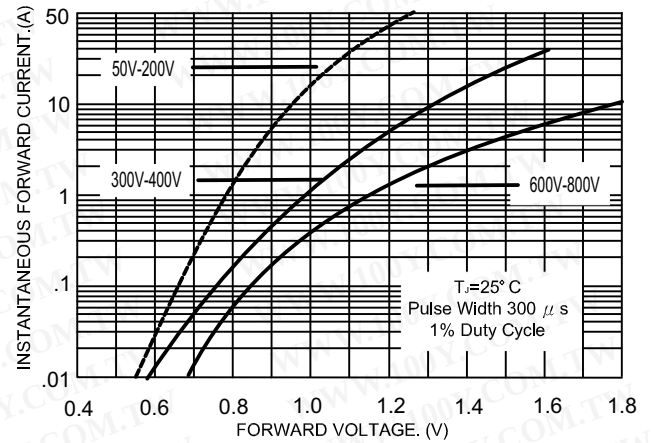


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

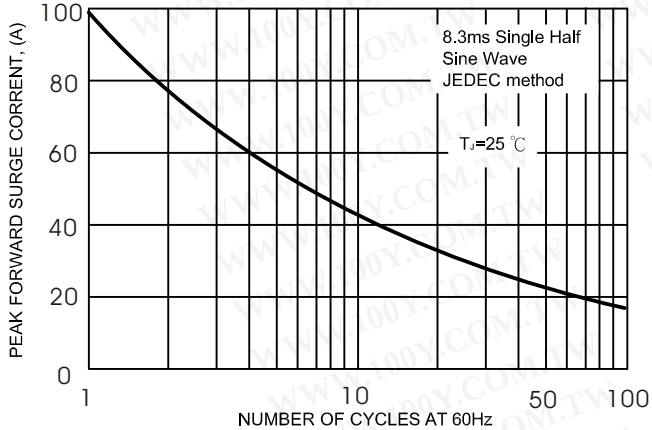


Figure 6 GR1 Test Circuit

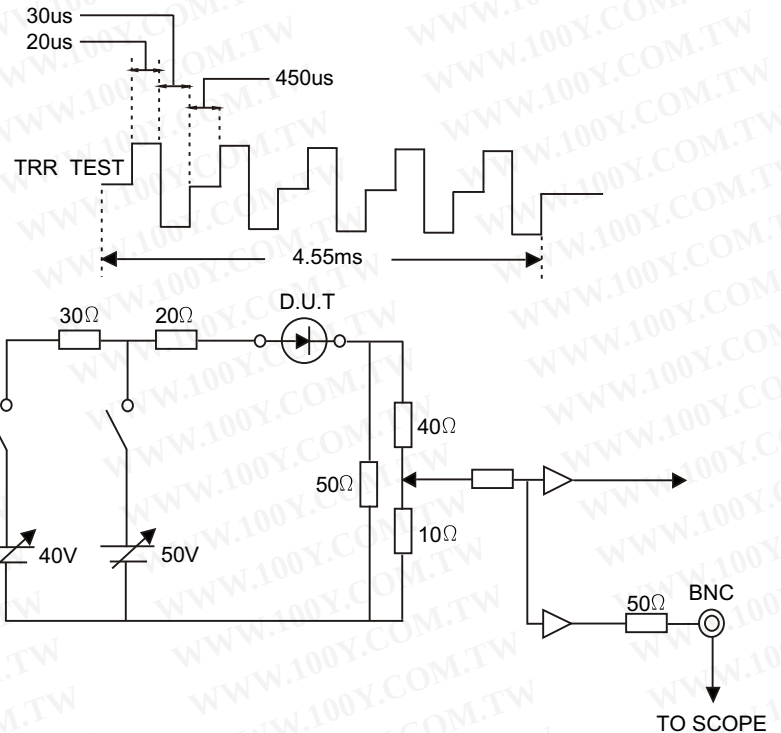


FIG.4- TYPICAL JUNCTION CAPACITANCE

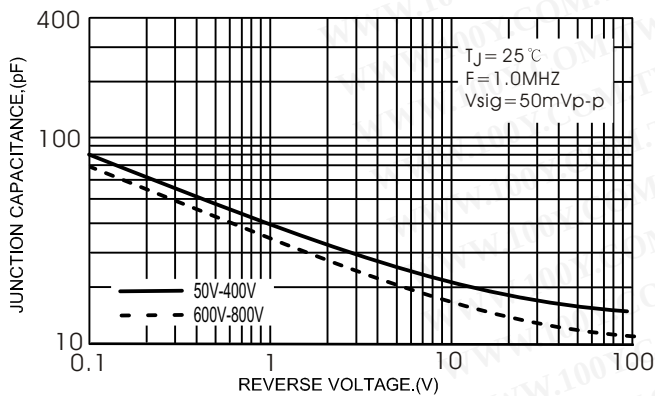
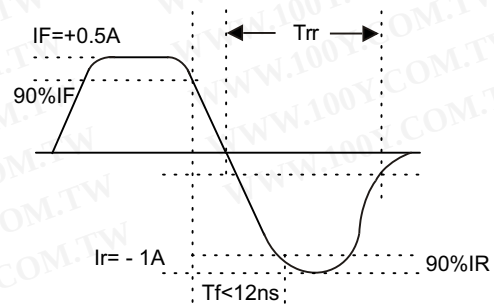
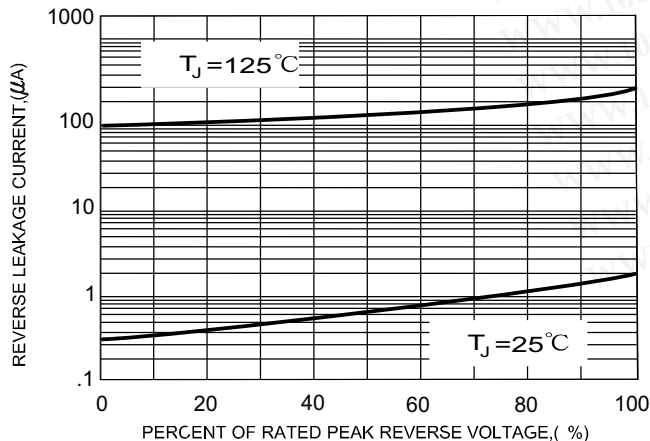


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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