

# UF20005CT      THUR      UF2008CT

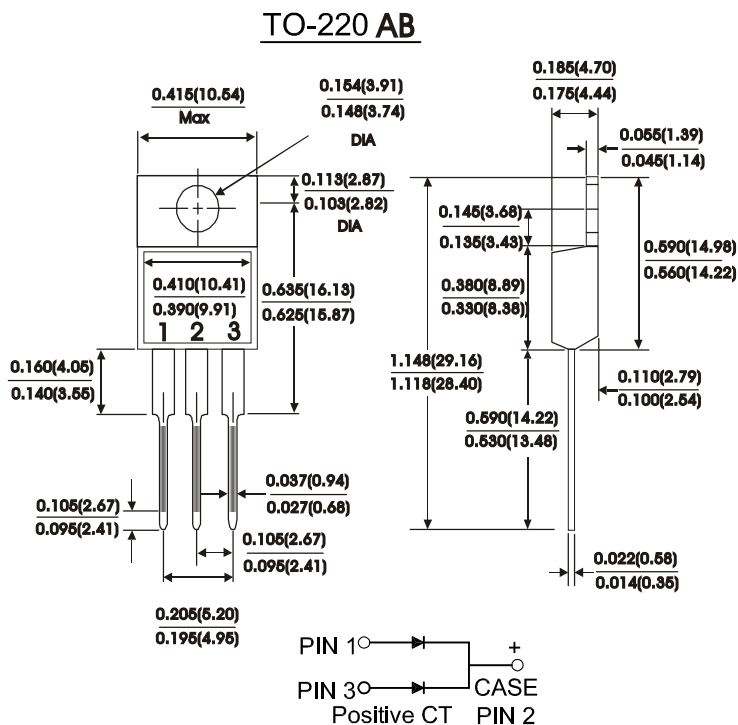
## ULTRA FAST GLASS PASSIVATED RECTIFIERS

### FEATURES:

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

### MECHANICAL DATA

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



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 20005CT	UF 2001CT	UF 2002CT	UF 2003CT	UF 2004CT	UF 2006CT	UF 2008CT	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 $T_c=100^\circ\text{C}$	$I_o$	20.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Per leg)	$I_{FSM}$	150							Amps
Maximum instantaneous forward voltage (Per leg) $I_F=10A$	$V_F$	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							$\mu A$
Typical reverse recovery time (NOTE 1)(Per leg)	$T_{RR}$	50		75		100		nS	
Typical junction capacitance (NOTE 2)(Per leg)	$C_J$	50							$P_F$
Operating and storage 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 1 MHz and reverse Voltage of 4.0V  
 (3) Marking : UF20005CT = UF20005 (Without Marking "CT")  
                   Symbol            Marking

# RATINGS AND CHARACTERISTIC CURVES UF20005CT THRU UF2008CT

