

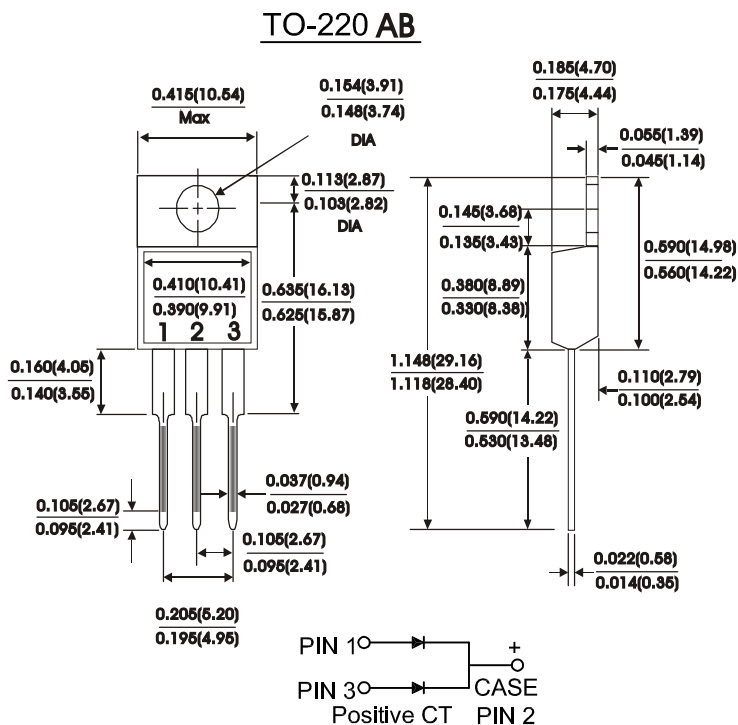
ULTRA FAST GLASS PASSIVATED RECTIFIERS

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 16005CT	UF 1601CT	UF 1602CT	UF 1603CT	UF 1604CT	UF 1606CT	UF 1608CT	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	210	280	280	560	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	Volts
Maximum average forward rectified current at T <sub>c</sub> =100°C	I <sub>O</sub>	16.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I <sub>FSM</sub>	125							Amps
Maximum instantaneous forward voltage (Per leg) IF=8.0A	V <sub>F</sub>	1.0		1.30		1.70		Volts	
Maximum DC reverse current (Per leg) at rated DC blocking voltage T <sub>c</sub> =25°C T <sub>c</sub> =125°C	I <sub>R</sub>	10.0 500.0							μA
Typical reverse recovery time (NOTE 1)(Per leg)	T <sub>RR</sub>	50		75		100		nS	
Typical junction capacitance(NOTE 2)(Per leg)	C <sub>J</sub>	50							P <sub>F</sub>
Operating temperature range	T <sub>J</sub>	-55to+150							°C
Storage temperature range	T <sub>Stg</sub>	-55to+150							°C

- NOTES:  
 (1)Reverse Recovery Test CONDITION : I<sub>F</sub>=0.5A,I<sub>R</sub>=1.0A,I<sub>RR</sub>=0.25A  
 (2)Measured at 1MHZ and reverse Voltage of 4.0V  
 (3)Marking : UF16005CT = UF16005 (Without Marking "CT")  
 Symbol Marking

# RATINGS AND CHARACTERISTIC CURVES UF16005CT THRU UF1608CT

