

ULTRA FAST GLASS PASSIVATED RECTIFIERS

ITO-220AB

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 switching losses
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case : JEDEC ITO-220AB molded plastic

Terminals : Leads solderable per MIL-STD-750

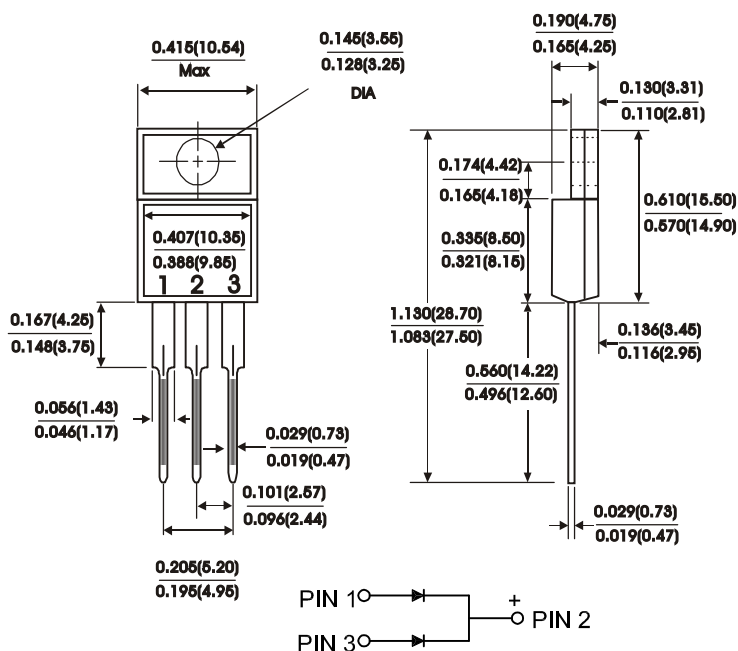
Method 2026

Polarity : As marked

Mounting Position : 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	UFF 16005CT	UFF 1601CT	UFF 1602CT	UFF 1603CT	UFF 1604CT	UFF 1606CT	UFF 1608CT	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 $T_c=100^\circ\text{C}$	$I_{(AV)}$	16.0							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 at rated DC blocking voltage (Per leg) $T_c=25^\circ\text{C}$ $T_c=125^\circ\text{C}$	I_R	10.0 500.0							μA
Typical reverse recovery time (Per leg)(NOTE 1)	T_{RR}	50			75		100		nS
Typical junction capacitance (Per leg)(NOTE 2)	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 : $\frac{\text{UFF16005CT}}{\text{Symbol}} = \frac{\text{UFF16005}}{\text{Marking}}$ (Without Marking "CT")

RATINGS AND CHARACTERISTIC CURVES UFF16005CT THRU UFF1608CT

