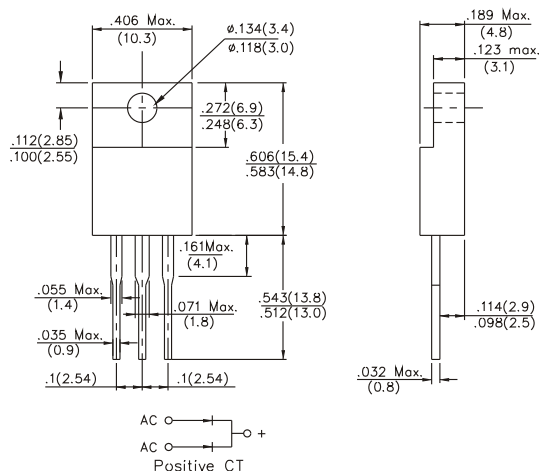
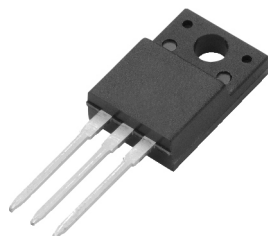


UF1600FCT thru UF1608FCT

SURFACE MOUNT REVERSE VOLTAGE 50 TO 800 VOLTS

16A ISOLATION ULTRAFAST GLASS PASSIVATED RECTIFIER

ITO-220AB



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency
- Low forward voltage, high current capability
- High surge capacity
- Ultra Fast recovery times, high voltage
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case: TO-220AB full molded plastic package
- Terminals: Lead solderable per MIL-STD-202, Method 208
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08 ounce, 2.26 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RETEMARAP	SYMBOL	UF 1600FCT	UF 1601FCT	UF 1602FCT	UF 1603FCT	UF 1604FCT	UF 1606FCT	UF 1608FCT	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	V	
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	V	
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	V	
Maximum Average Forward Current .375" (9.5mm)	I _{AV}	16								A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	125								A
Maximum Forward Voltage at 8.0A	V _F	1.0			1.30		1.70		V	
Maximum DC Reverse current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I _R	10 500								μA
Typical Junction Capacitance (Note 1)	C _J	170							130	pF
Maximum Reverse Recovery Time (Note 2)	TRR	50							75	ns
Typical Thermal Resistance (Note 3)	R _{JC}	2								$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150								$^\circ\text{C}$

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{rr}=.25A.
3. Thermal resistance from Junction to ambient and from junction to lead 0.375" (9.5mm) P.C.B mounted.

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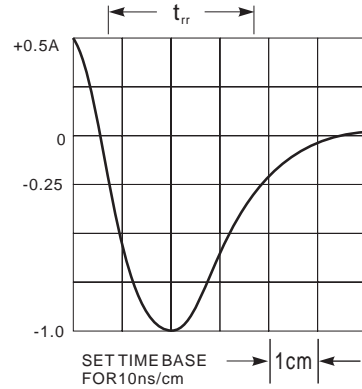
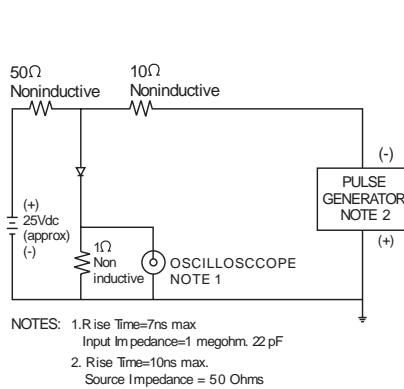


Fig.1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

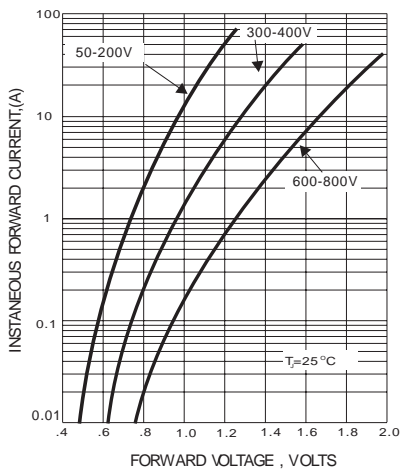


Fig.2- FORWARD CHARACTERISTICS

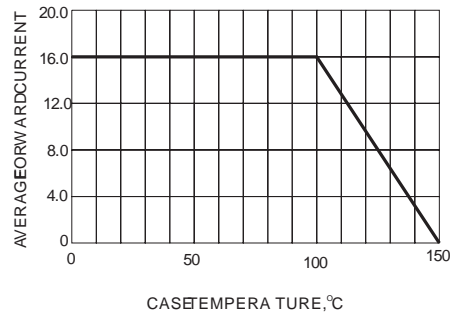


Fig.3-FORWARD CURRENT DERATING CURVE

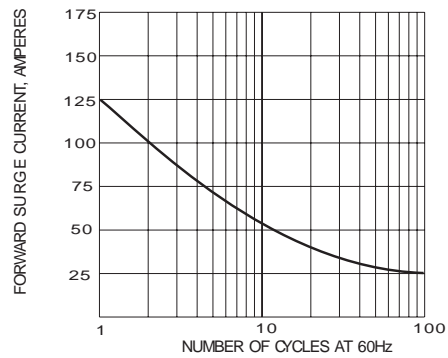


Fig.4-PEAK FORWARD SURGE CURRENT

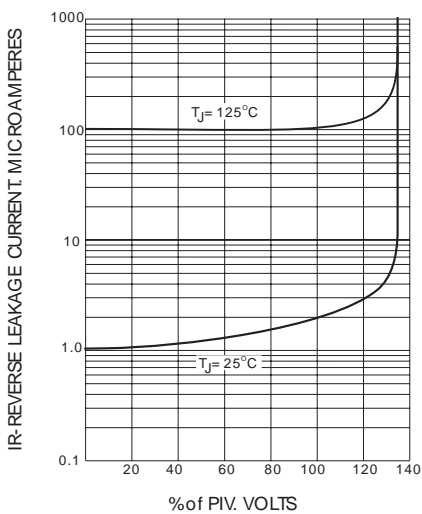


Fig.5- TYPICAL REVERSE CHARACTERISTICS

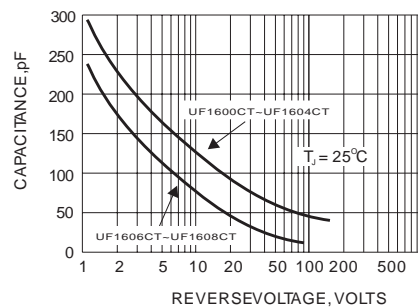


Fig.6-TYPICAL JUNCTION CAPACITANCE