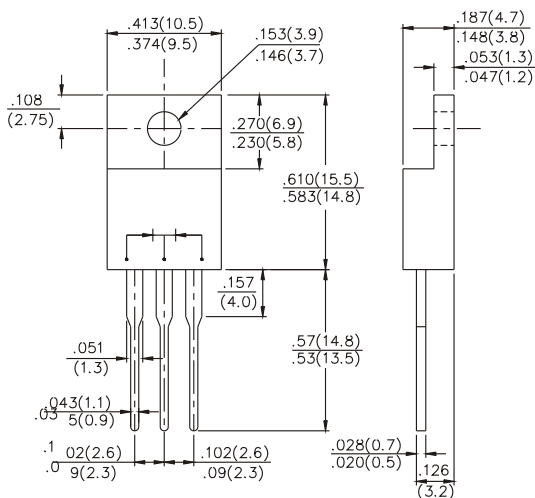
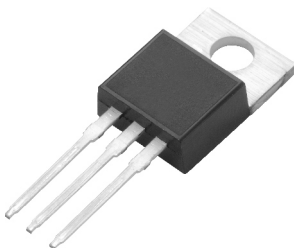


UF1600CT thru UF1608CT

SURFACE MOUNT REVERSE VOLTAGE 50 TO 800 VOLTS

16A ISOLATION ULTRAFAST GLASS PASSIVATED RECTIFIER

TO-220AB



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, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @T_A=25°C unless otherwise specified

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

RETEMARAP	SYMBOL	UF 1600CT	UF 1601CT	UF 1602CT	UF 1603CT	UF 1604CT	UF 1606CT	UF 1608CT	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)	IAV	16							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	IFSM	125							A
Maximum Forward Voltage at 8.0A	VF	1.0			1.30		1.70		V
Maximum DC Reverse current TA=25 at Rated DC Blocking Voltage TA=125	IR	10 500							μA
Typical Junction Capacitance (Note 1)	CJ	170					130		pF
Maximum Reverse Recovery Time (Note 2)	TRR	50					75		ns
Typical Thermal Resistance (Note 3)	R JC	2							°C/W
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 to +150							°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.

UF1600CT thru UF1608CT

SURFACE MOUNT REVERSE VOLTAGE 50 TO 800 VOLTS

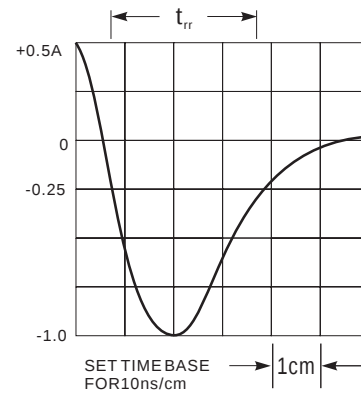
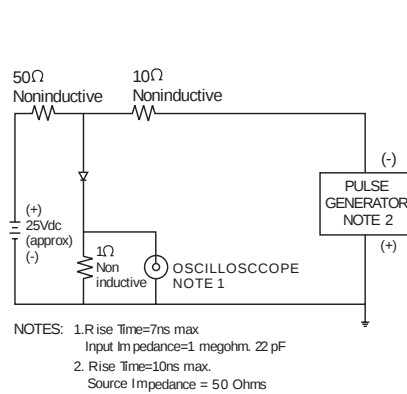


Fig.1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

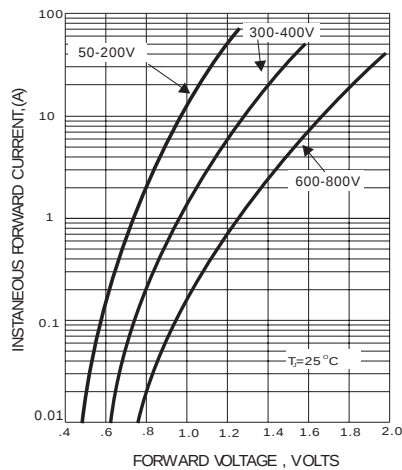


Fig.2- FORWARD CHARACTERISTICS

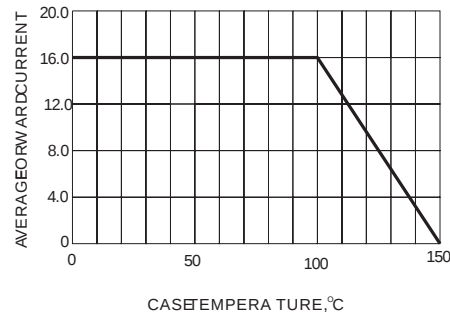


Fig.3- FORWARD CURRENT DERATING CURVE

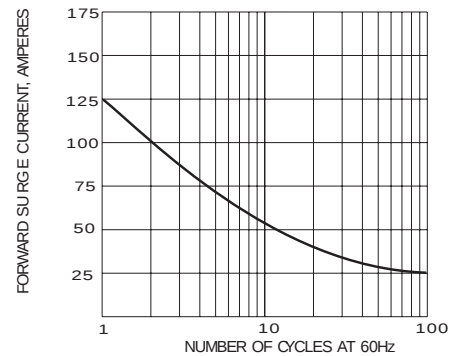


Fig.4- PEAK FORWARD SURGE CURRENT

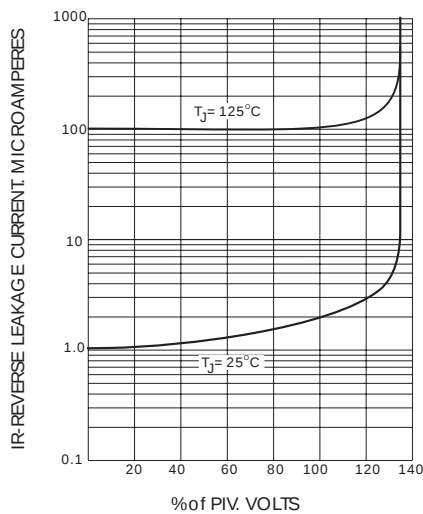


Fig.5- TYPICAL REVERSE CHARACTERISTICS

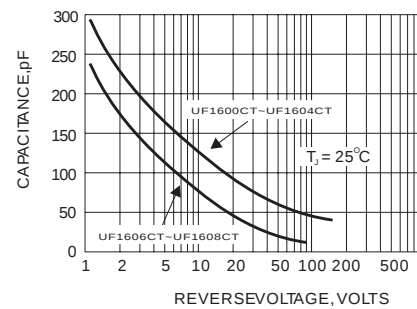


Fig.6- TYPICAL JUNCTION CAPACITANCE