

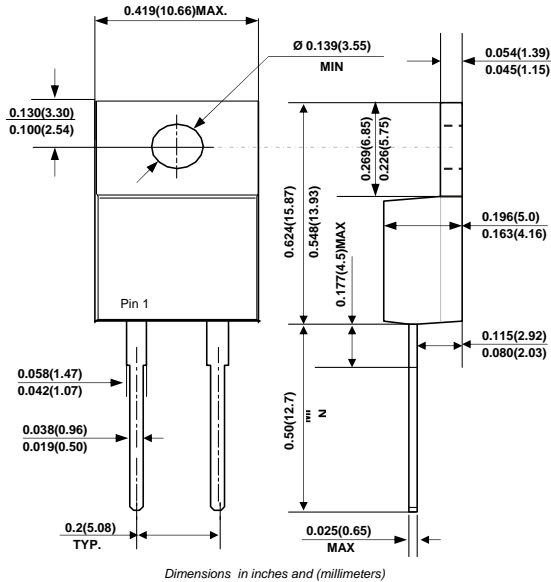


UF800T THRU UF810T

HIGH EFFICIENCY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current 8.0 Ampere

TO-220AC



FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0. Flame Retardant Epoxy Molding Compound.
- ◆ Exceeds environmental of MIL-S-19500/228
- ◆ Low power loss, high efficiency.
- ◆ Low forward voltage, high current capability.
- ◆ High surge capability.
- ◆ Ultra fast recovery times, high voltage.
- ◆ In compliance with EU RoHS 2002/95/EC directives.

MECHANICAL DATA

Case: TO-220AC, Molded plastic.

Terminals: Solderable per MIL-STD-750 · Method 2026

Weight: 1.859 gram (0.0655 ounces).

Standard Packaging : Tube.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOLS	UF800T	UF801T	UF802T	UF804T	UF809T	UF810T	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	900	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	630	700	Volts
Maximum DC Breakdown Voltage	V_{DC}	50	100	200	400	900	1000	Volts
Maximum Average Forward Current at $T_C = 100^\circ\text{C}$	$I_{F(AV)}$	8.0						Amp
Peak Forward Surge Current, 8.3ms single half sinewave superimposed on rated load (JEDEC method)	I_{FSM}	125						Amps
Maximum Forward Voltage at 8A at $I_F = 8.0\text{A}$	V_F	1.00		1.30		1.85	1.95	Volts
Maximum DC Reverse Current Rated DC Blocking Voltage at $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	I_R	10.0 100						μA
Maximum Reverse Recovery Time (NOTE 2)	t_{rr}	35				50		nS
Typical Junction Capacitance (NOTE 1)	C_J	80				48		pF
Typical Thermal Resistance (NOTE 3)	$R_{\theta JC}$	5.0						$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						$^\circ\text{C}$

- Note:**
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$.
 3. Thermal resistance from Junction to case.
 4. Both Bonding and Chip structure are available.



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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

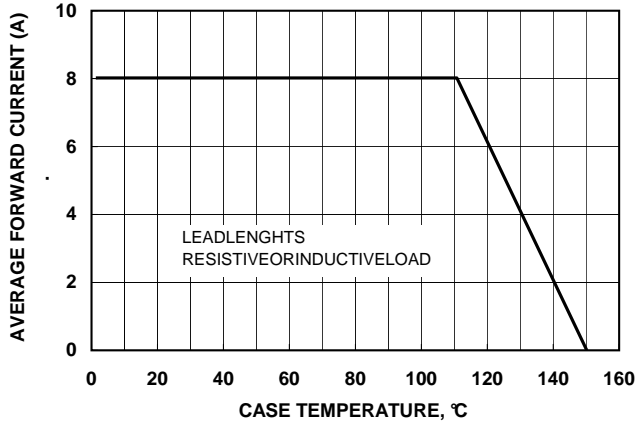


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

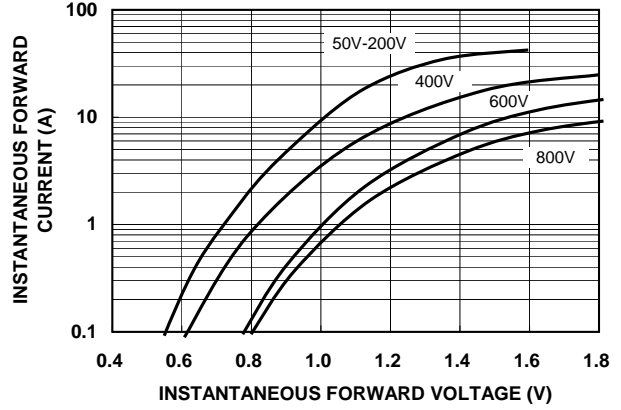


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

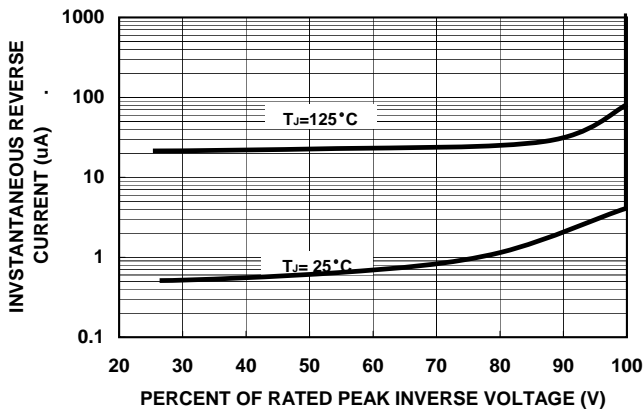


FIG. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

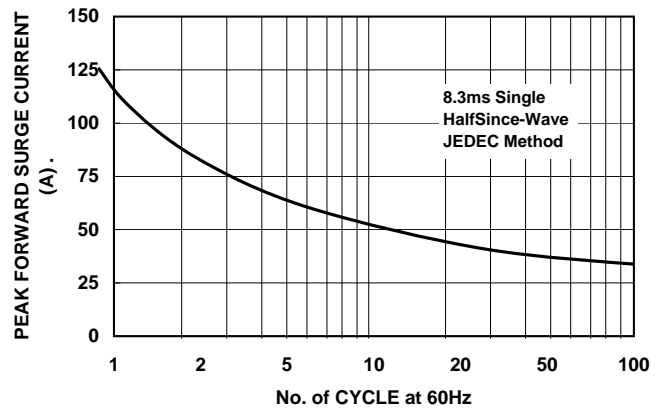
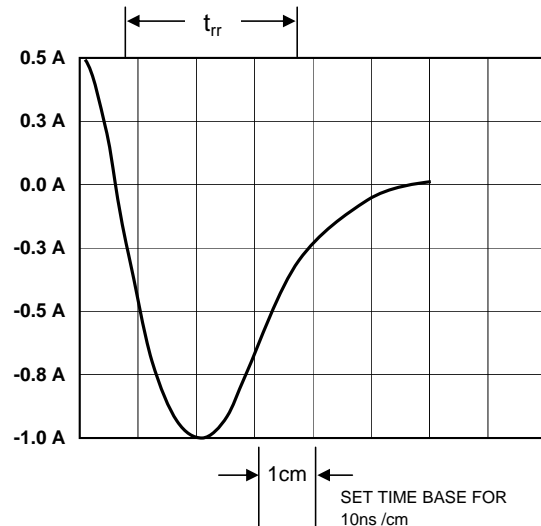
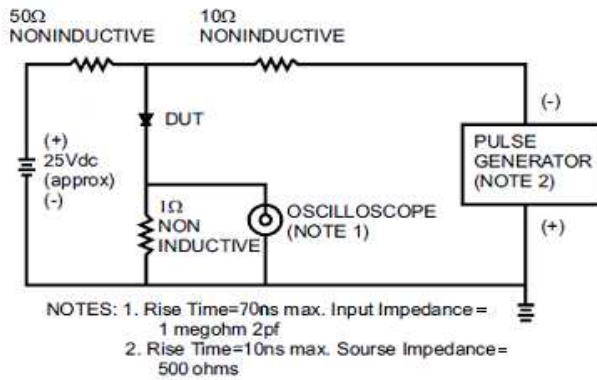


FIG. 5- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



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