UF800 THRU UF808

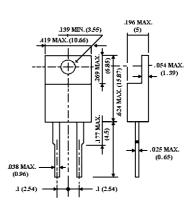
ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 8.0 Amperes

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

MECHANICAL DATA

Case: TO-220AC molded plastic Terminals: Lead solderable per MIL-STD-202, Method 208 Polarity: As marked Mounting Position: Any Weight: 0.08 ounce, 2.24 gram



TO-220AC

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

i of oupdollive load, delate ourient by 2070								
TYPE NUMBER	UF800	UF801	UF802	UF803	UF804	UF806	UF808	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	V
Maximum RMS Voltage	35	70	140	210	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	V
Maximum Average Forward Rectified	8.0							А
Current .375"(9.5mm) lead length @ T _c =100 ¢J								
Peak Forward Surge Current, 8.3ms single half sine	125							A
wave superimposed on rated load(JECEC method)								
Maximum Instantaneous Forward Voltage at 8.0A	1.0		1.3		1.7		V	
Maximum DC Reverse Current @T _A =25 ¢J	10.0							£g A
at Rated DC Blocking Voltage @T _A =125 ¢J	500							£g A
Maximum Reverse Recovery Time(Note 1)	50 100						00	ns
Typical Junction capacitance (Note 2)	80 50						₽F	
Typical Junction Resistance (Note 2) R fK JA	15							¢J/W
Operating and Storage Temperature Range T_J, T_{STG}	-55 to +150							¢J

NOTES:

- 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



RATING AND CHARACTERISTIC CURVES UF800 THRU UF808

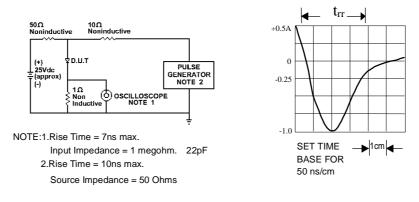


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

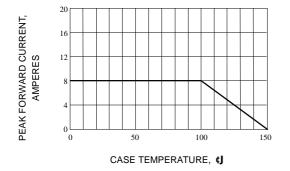
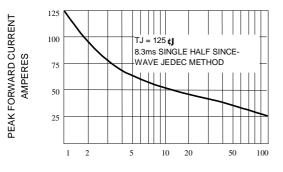


Fig. 1-TYPICAL FORWARD CURRENT DERATING CURVE



NUMBER OF CYCLES AT 60Hz



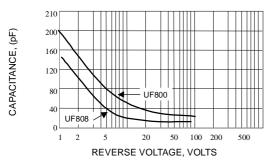
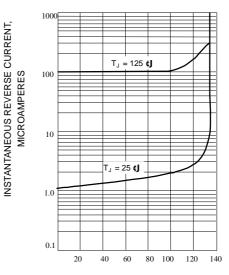


Fig. 4-TYPICAL JUNCTION CAPACITANCE



PERCENT OF RATED PEAK REVERSE VOLTAGE

Fig. 2-TYPICAL REVERSE CHARACTERISTICS

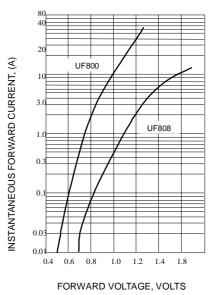


Fig. 5-TYPICAL FORWARD CURRENT

