UF600 THRU UF608

ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 6.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Void-free Plastic in P600 package
- 6.0 ampere operation at T_A=55 ¢J with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Ultra fast switching for high efficiency

MECHANICAL DATA

Case: Molded plastic, P600

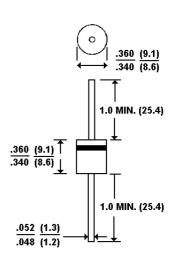
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.07 ounce, 2.1 gram



P600

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

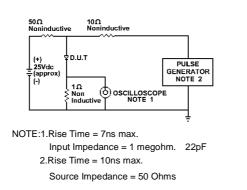
0.0.0						
UF600	UF601	UF602	UF604	UF606	UF608	UNITS
50	100	200	400	600	800	V
35	70	140	280	420	560	V
50	100	200	400	600	800	V
6.0					Α	
300					Α	
1.00 1.10 1.70				V		
10.0					£g A	
1000					£g A	
300					₽F	
10.0					¢J/W	
50	50	50	50	7	5	ns
-55 TO +150					¢J	
	UF600 50 35 50	UF600 UF601 50 100 35 70 50 100 1.00	50 100 200 35 70 140 50 100 200	UF600 UF601 UF602 UF604 50 100 200 400 35 70 140 280 50 100 200 400 6.0 300 1.00 1.10 1000 1000 300 10.0 50 50 50	UF600 UF601 UF602 UF604 UF606 50 100 200 400 600 35 70 140 280 420 50 100 200 400 600 6.0 300 10.0 10.0 10.0 10.0 10.0 10.0 50 50 50 7	UF600 UF601 UF602 UF604 UF606 UF608 50 100 200 400 600 800 35 70 140 280 420 560 50 100 200 400 600 800 300 1.00 1.10 1.70 10.0 300 10.0 50 50 50 75

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



RATING AND CHARACTERISTIC CURVES UF600 THRU UF608



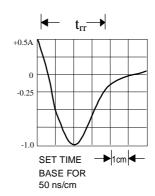


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

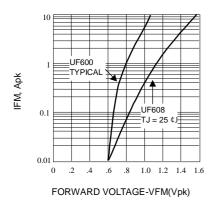
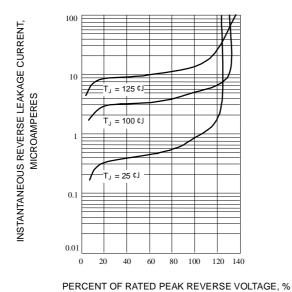


Fig. 2-FORWARD CHARACTERISTICS

Fig. 3-FORWARD CURRENT DERATING CURVE



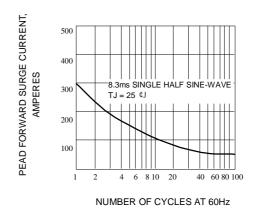


Fig. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Fig. 5-PEAK FORWARD SURGE CURRENT

