UF600G THRU UF608G

GLASS PASSIVATED JUNCTION 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
- Glass passivated junction in P600 package
- 6.0 ampere operation at T_A=55 **¢**] with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Ultra Fast switching for high efficiency

MECHANICAL DATA

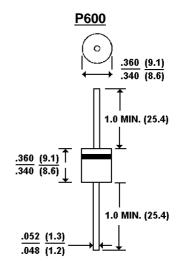
Case: Molded plastic, P600

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

Method 208

Polarity: Band denotes cathode

Mounting Position: Any Weight: 0.07 ounce, 2.1 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 () ambient temperature unless otherwise specified.

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

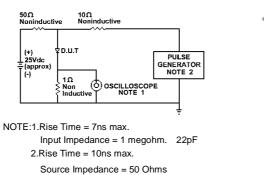
	UF600G	UF601G	UF602G	UF604G	UF606G	UF608G	UNITS
Peak Reverse Voltage, Repetitive; V _{RM} :	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
DC Reverse Voltage; V _R	50	100	200	400	600	800	V
Average Forward Current, lo @ T _A =55 ¢J 3/8" lead	6.0						Α
length, 60 Hz, resistive or inductive load							
Peak Forward Surge Current, I _{FM} (surge) 8.3msec.	250						Α
single half sine wave superimposed on rated							
load(JECEC method)							
Maximum Forward Voltage VF @ 6.0A, 25 ¢J		1.00		1.30	1.	70	V
Maximum Reverse Current, @ Rated T _J =25 ¢J	10.0						£g A
Reverse Voltage T _J =100 ¢J	500						£g A
Typical Junction capacitance (Note 1) CJ	300						₽F
Typical Junction Resistance (Note 2) R £K JA	10.0						¢J /W
Reverse Recovery Time	50	50	50	50	100	100	ns
I_F =.5A, I_R =1A, I_{rr} =.25A							
Operating and Storage Temperature Range	-55 to +150						¢J

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 UF600G THRU UF608G



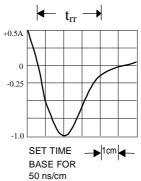
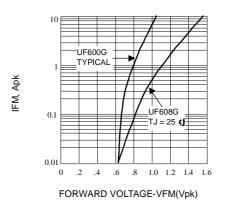


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



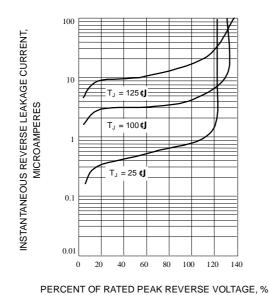
AMBIENT TEMPERATURE, \$\frac{1}{3}\$

AMBIENT TEMPERATURE, \$\frac{1}{3}\$

AMBIENT TEMPERATURE, \$\frac{1}{3}\$

Fig. 2-FORWARD CHARACTERISTICS

Fig. 3-FORWARD CURRENT DERATING CURVE



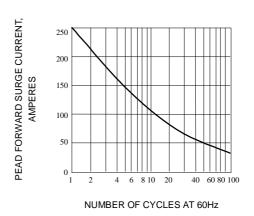


Fig. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Fig. 5-PEAK FORWARD SURGE CURRENT

