UF600 THRU UF608

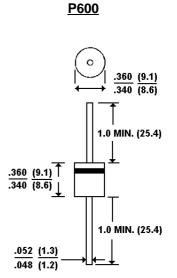
ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 6.0 Amperes

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



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

Single phase, nail wave, ouriz, resistive of it		au					
	UF600	UF601	UF602	UF604	UF606	UF608	UNITS
Peak Reverse Voltage, Pepetitive ; V _{RM}	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
DC Blocking Voltage; VR	50	100	200	400	600	800	V
Average Forward Current, Io @T _A =55 ¢J 3.8"	6.0						Α
lead length, 60Hz, resistive or inductive load							
Peak Forward Surge Current I _{FM} (surge)	300						Α
8.3msec. single half sine-wave superimposed							
on rated load (JEDEC method)							
Maximum Forward Voltage V _F @6.0A, 25 ¢J	1.00 1.10 1.70				70	V	
Maximum Reverse Current, @ Rated T_=25 ¢	10.0						£g A
Reverse Voltage T _J =100 ¢J	1000						£g A
Typical Junction capacitance (Note 1) CJ	300						₽F
Typical Junction Resistance (Note 2) R fK JA	10.0						¢J/W
Reverse Recovery Time	50	50	50	50	7	'5	ns
I _F =.5A, I _R =1A, Irr=.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





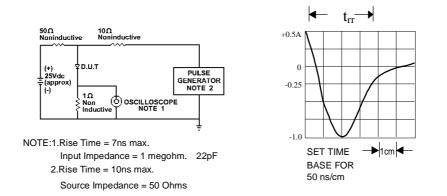


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

AVERAGE FORWARD CURRENT, AMP

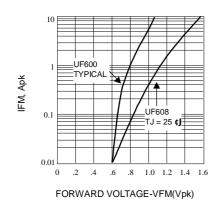
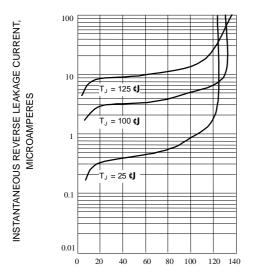


Fig. 2-FORWARD CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE, %



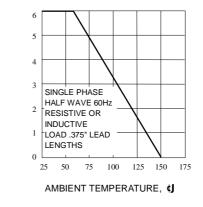


Fig. 3-FORWARD CURRENT DERATING CURVE

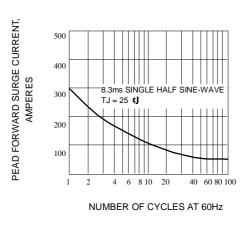


Fig. 5-PEAK FORWARD SURGE CURRENT

