UF300G THRU UF308G

GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O Utilizing
 Flame Retardant Epoxy Molding Compound
- Glass passivated junction in DO-201AD package
- 3.0 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, DO-201AD

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

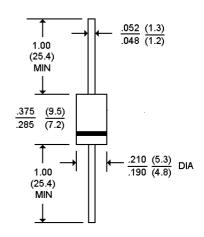
Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.04 ounce, 1.1 gram

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

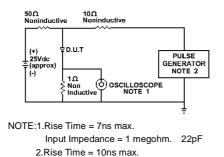
	UF300G	UF301G	UF302G	UF304G	UF306G	UF308G	UNITS
Peak Reverse Voltage, Repetitive; V _{RM} :	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
DC Reverse Voltage; V _R	50	100	200	400	600	800	V
Average Forward Current, lo @ T _A =55 ¢J 3/8" lead	3.0						Α
length, 60 Hz, resistive or inductive load							
Peak Forward Surge Current, I _{FM} (surge) 8.3msec.	150						Α
single half sine wave superimposed on rated load(JECEC method)							
Maximum Forward Voltage VF @ 3.0A, 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	300						£g A
Typical Junction capacitance (Note 1) CJ	75.0			50.0			₽F
Typical Junction Resistance (Note 2) R £KJA	60.0					¢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 UF300G THRU UF308G



Source Impedance = 50 Ohms

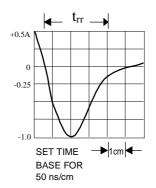
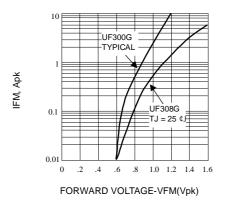


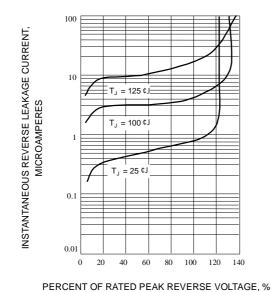
Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



AMBIENT TEMPERATURE, ¢J

Fig. 2-FORWARD CHARACTERISTICS

Fig. 3-FORWARD CURRENT DERATING CURVE



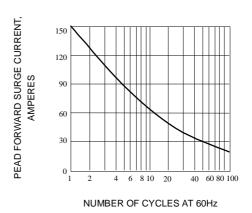


Fig. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Fig. 5-PEAK FORWARD SURGE CURRENT

