



查询UF300G供应商
**TRANSYS
ELECTRONICS
LIMITED**

捷多邦, 专业PCB打样工厂, 24小时加急出货

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 $T_A=55^\circ\text{C}$ 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

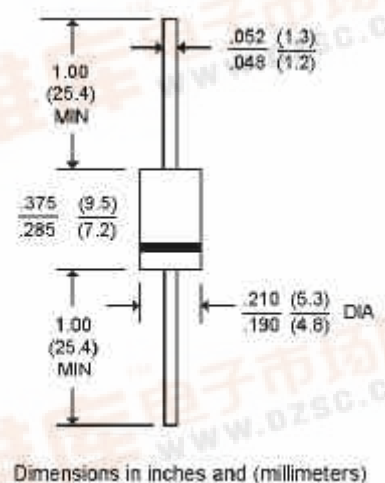
Terminals: axial leads, solderable per MIL-STD-202,
Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.04 ounce, 1.1 gram

DO-201AD



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C 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, I_o @ $T_A=55^\circ\text{C}$ 3/8" lead length, 60 Hz, resistive or inductive load	3.0						A
Peak Forward Surge Current, I_{FM} (surge) 8.3msec. single half sine wave superimposed on rated load(JECEC method)	150						A
Maximum Forward Voltage V_F @ 3.0A, 25°C	1.00		1.30		1.70		V
Maximum Reverse Current, @ Rated $T_J=25^\circ\text{C}$	10.0						μgA
Reverse Voltage $T_J=100^\circ\text{C}$	300						μgA
Typical Junction capacitance (Note 1) C_J	75.0			50.0			pF
Typical Junction Resistance (Note 2) R_{gKJA}	60.0						$\mu\text{J/W}$
Reverse Recovery Time $I_F=.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=.25\text{A}$	50	50	50	50	100	100	ns
Operating and Storage Temperature Range	-55 to +150						$^\circ\text{C}$

NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 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

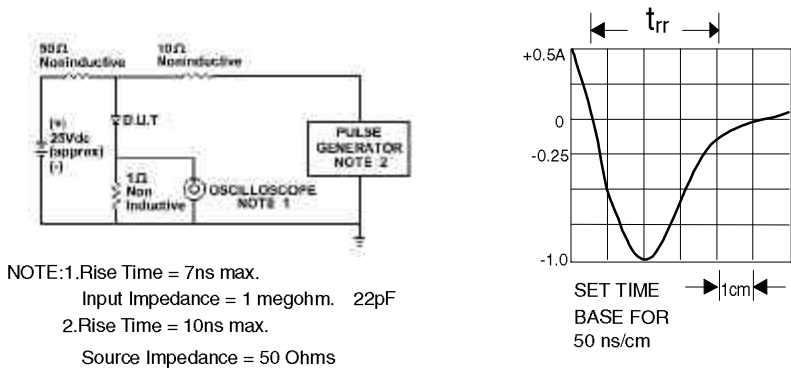


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

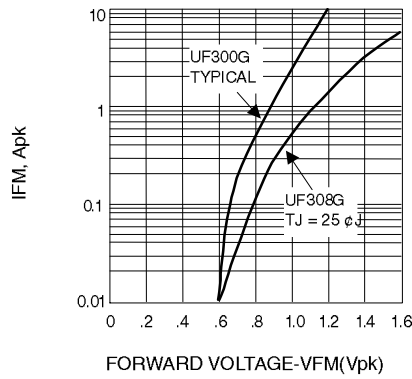


Fig. 2-FORWARD CHARACTERISTICS

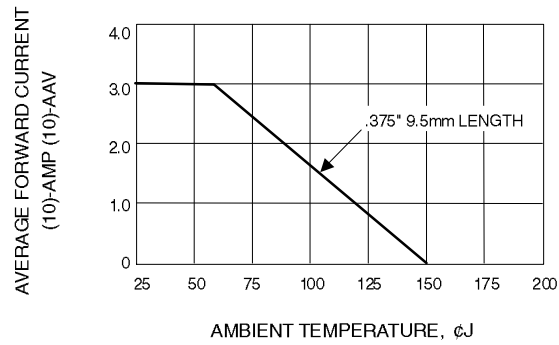


Fig. 3-FORWARD CURRENT DERATING CURVE

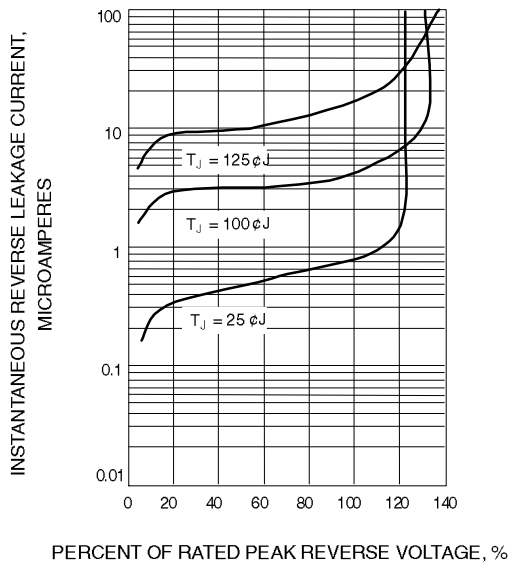


Fig. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

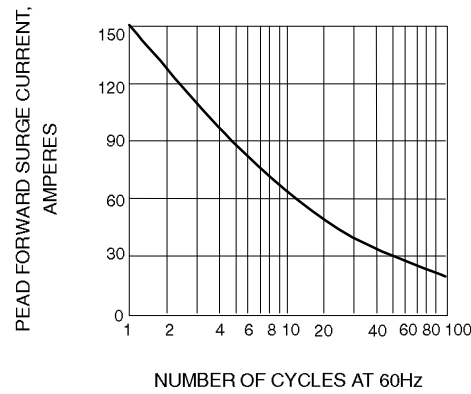


Fig. 5-PEAK FORWARD SURGE CURRENT