



YENYO

UF5400G THRU UF5408G

Glass Passivated Ultra Fast Recovery Rectifier

Features

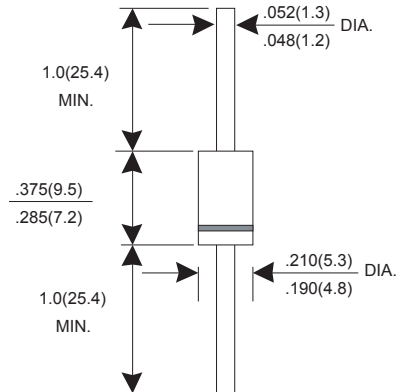
- ★ Fast switching for high efficiency
- ★ Low forward voltage drop
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic DO-201AD
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202 method 208 guaranteed
- ★ Polarity: Color band denotes cathode
- ★ Mounting position: Any
- ★ Weight: 1.1 gram

**Voltage Range 50 to 1000 V
Current 3.0 Ampere**

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

PARAMTER	SYMBOL	UF 5400G	UF 5401G	UF 5402G	UF 5403G	UF 5404G	UF 5406G	UF 5407G	UF 5408G	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V	
Maximum Average Forward Rectified Current $T_L=55^\circ\text{C}$	IF(AV)	3.0								A	
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	150								A	
Maximum Instantaneous Forward Voltage @ 3.0 A	VF	1.0					1.7				V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$	IR	5.0					100				uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	50					75				nS
Typical junction Capacitance (Note 2)	CJ	45					36				pF
Maximum Thermal Resistance (Note 3)	RθJA	20								°CW	
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150								°C	

NOTES : (1) Reverse recovery test conditions $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.
 (2) Thermal Resistance junction to lead.
 (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATINGS AND CHARACTERISTIC CURVES UF5400G THRU UF5408G

FIG.1 - FORWARD CURRENT DERATING CURVE

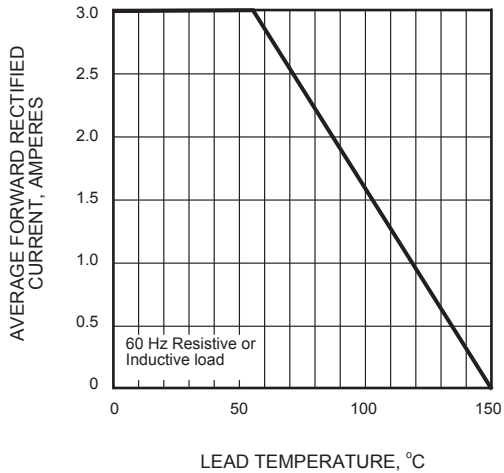


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

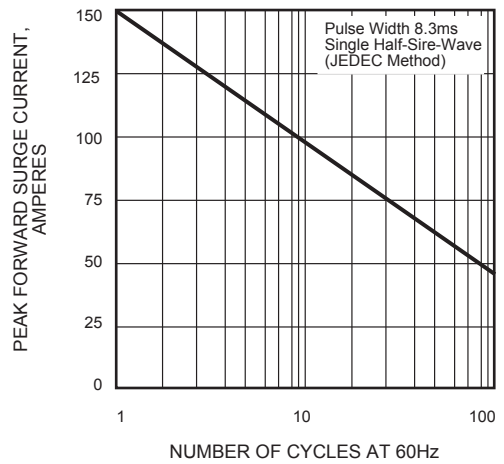


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

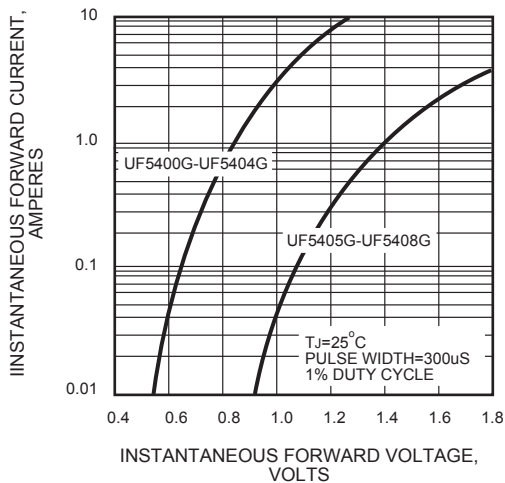


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

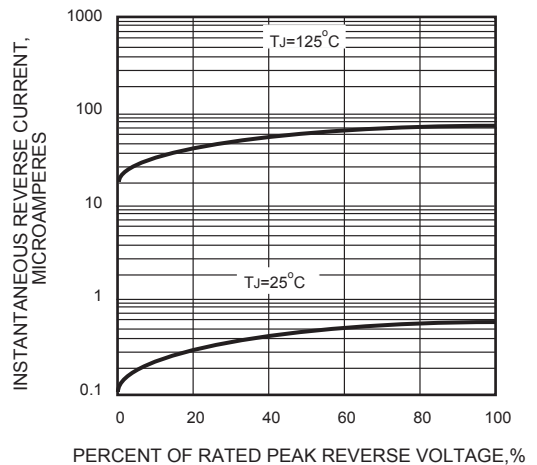


FIG.5 - TYPICAL JUNCTION CAPACITANCE

