

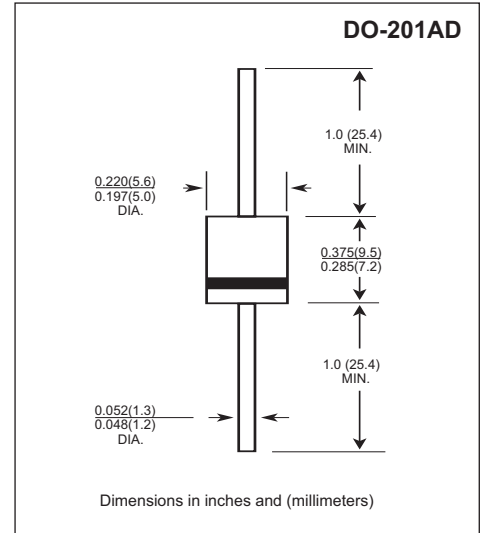
## GLASS PASSIVATED ULTRA FAST RECTIFIERS

### FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Ultra fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:  
250 C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension  
Glass passivated chip junction

### MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.04 ounce, 1.10 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load, for capacitive load derate current by 20%

PARAMETER	SYMBOLS	UF	UF	UF	UF	UF	UF	UF	UF	UF	UNITS
		5400G	5401G	5402G	5403G	5404G	5405G	5406G	5407G	5408G	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_A=55^\circ C$	$I_{(AV)}$	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150									Amps
Maximum instantaneous forward voltage at 3.0A	$V_F$	1.0			1.30		1.70			Volts	
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ C$ $T_A=100^\circ C$	$I_R$	5.0 150.0									mA
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	50						75			ns
Typical junction capacitance (NOTE 2)	$C_J$	45									pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	20.0									°C/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-65 to +150									°C

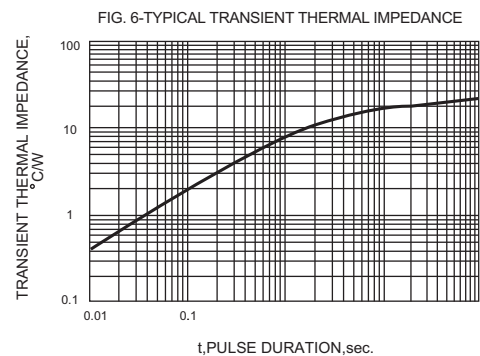
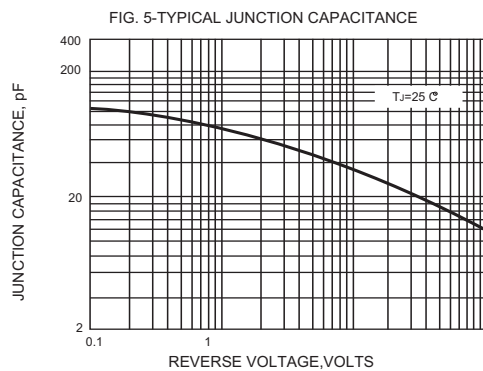
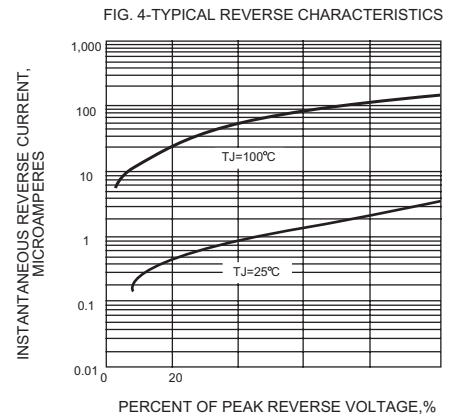
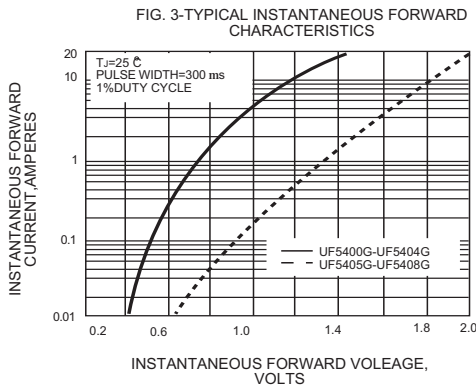
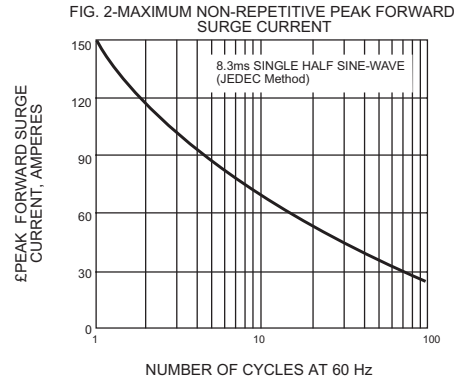
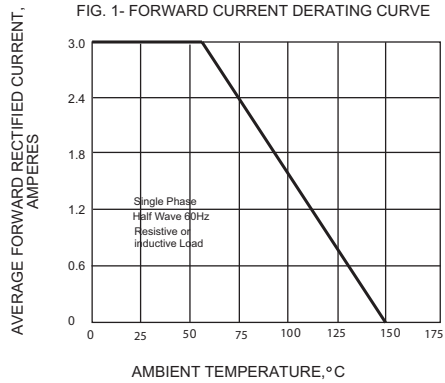
**Note:** 1. Reverse recovery condition  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted

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### RATINGS AND CHARACTERISTIC CURVES UF5400G - UF5408G



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.