

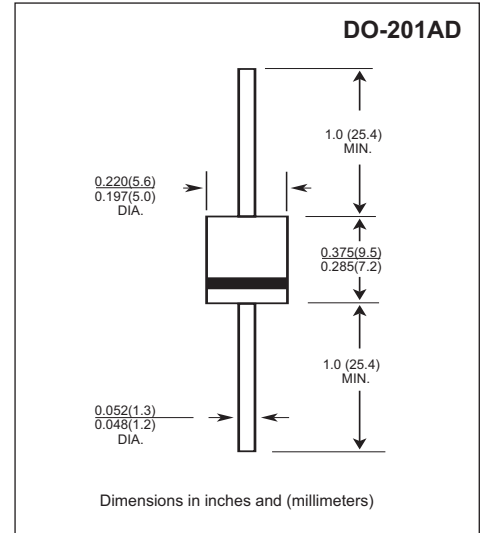
GLASS PASSIVATED ULTRA FAST RECTIFIERS

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 5400G	UF 5401G	UF 5402G	UF 5403G	UF 5404G	UF 5405G	UF 5406G	UF 5407G	UF 5408G	UNITS
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°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°C T _A =100°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 _{qJA}	20.0									°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +150									°C

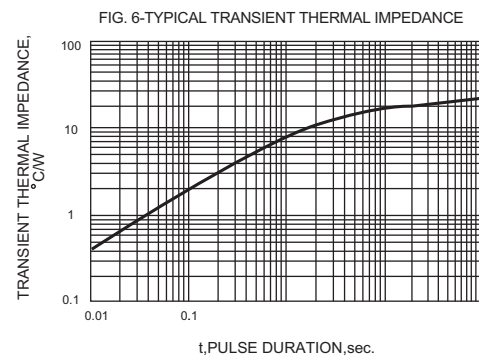
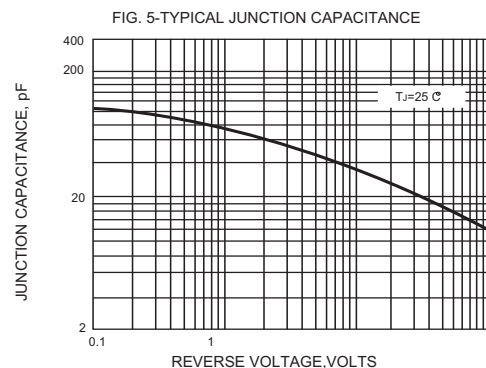
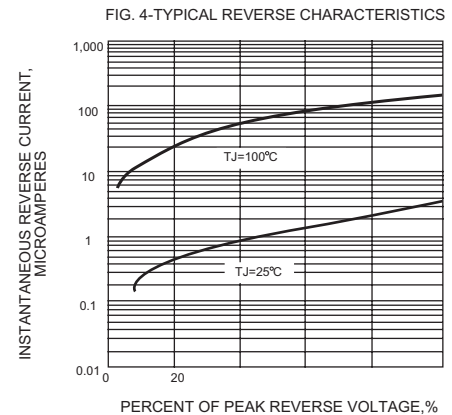
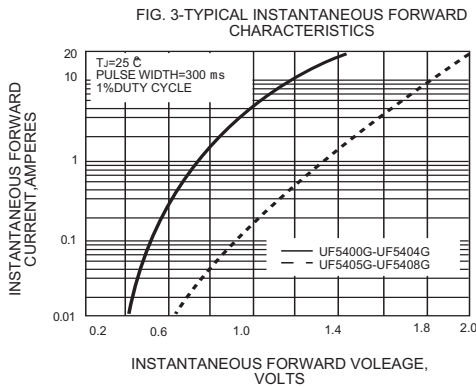
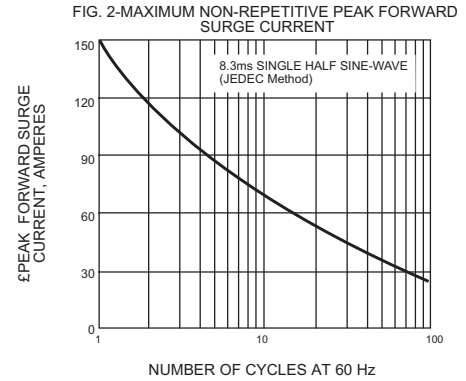
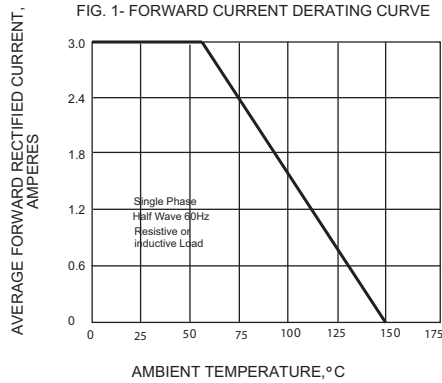
Note: 1.Reverse recovery condition $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$

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

GLASS PASSIVATED ULTRA FAST RECTIFIERS

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.