



UF5400 THRU UF5408

3.0 AMP. ULTRA FAST RECTIFIERS



VOLTAGE RANGE
50 to 1000 Volts
CURRENT
3.0 Amperes

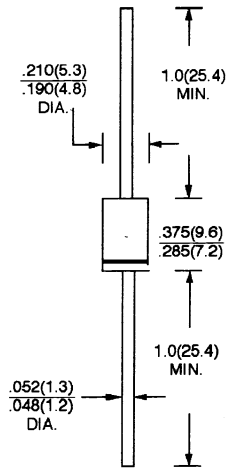
FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V - 0 rate flame retardant
- * Lead: Axial leads, solderable per MIL - STD - 202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 1.18 grams

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, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	UF 5400	UF 5401	UF 5402	UF 5404	UF 5406	UF 5407	UF 5408	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	V_{DC}	50	100	200	300	600	800	1000	V
Maximum Average Forward Rectified Current .375"9.5mm) lead length @ $T_A = 50^\circ C$	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	125							A
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.1				1.4			V
Maximum D. C Reverse Current @ $T_A = 25^\circ C$ At Rated D. C Blocking Voltage @ $T_A = 100^\circ C$	I_R	10.0				200			μA μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	50				75			nS
Typical Junction Capacitance (Note 2)	C_J	80				50			pF
Operation Temperature Range	T_J	- 65 to + 125							$^\circ C$
Storage Temperature Range	T_{STG}	- 65 to + 150							$^\circ C$

NOTES: 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.
3. Measured at 1 MHz and applied reverse voltage of 4.0V D. C.

RATINGS AND CHARACTERISTIC CURVES

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FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

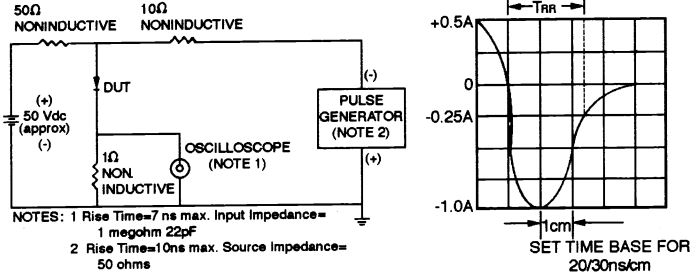


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

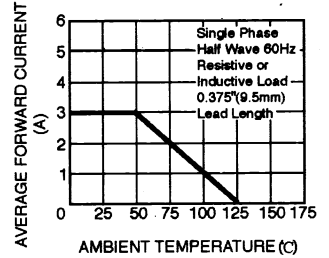


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

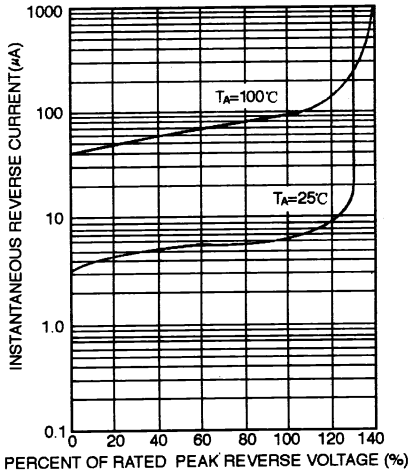


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

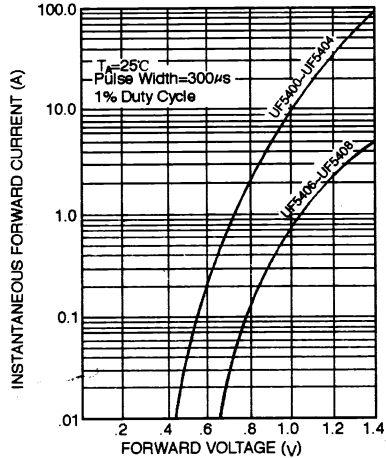


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

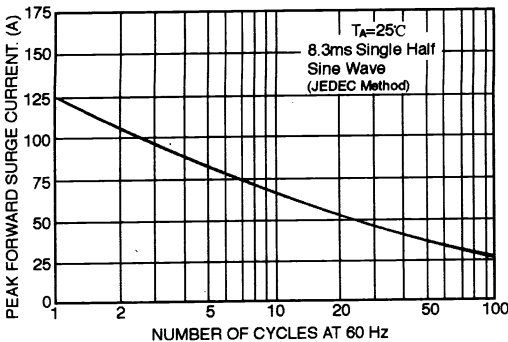
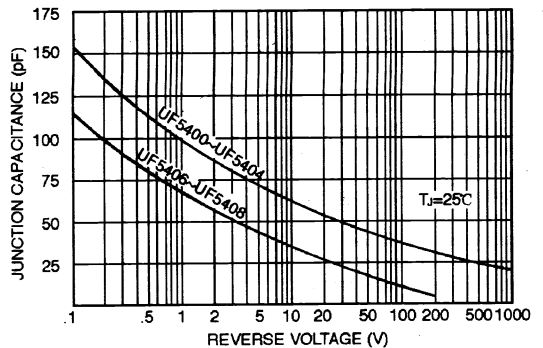


FIG. 6 - TYPICAL JUNCTION CAPACITANCE



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Datasheets for electronics components.