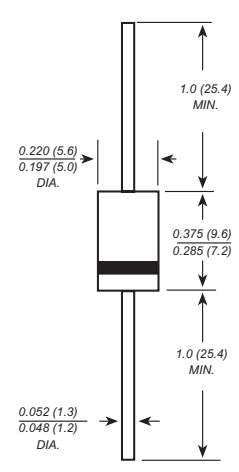


III. Fast / Ultra Fast / Super Fast Recovery Rectifier

3.0A Ultra Fast Recovery Rectifier UF5400~UF5408

(Package: DO-201AD)

<p>FEATURES</p> <ul style="list-style-type: none"> • 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 /10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3 kg) tension <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • 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 	 <p>Case: DO-201AD Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Characteristic	Symbol	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	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 $T_a = 55$	I_o	3.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100.0									Amps	
Maximum instantaneous forward voltage at 3.0A	V_F	1.0			1.3		1.7			Volts		
Maximum DC reverse current $T_a = 25$ at rated DC blocking voltage $T_a = 100$	I_R	10.0					250.0					μA
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_{th-JA}	20.0									/ W	
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +150										

Note :

1. Reverse recovery conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts D.C.
3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

<http://patron-components.com/>

Ratings and Characteristic Curves of UF5400~UF5408

