

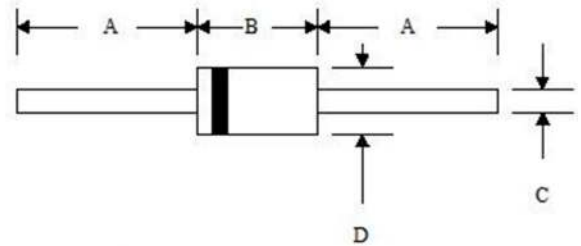
UF5400 – UF5408 3.0A ULTRAFAST DIODE



Kopnyc DO-201AD

Features

- ! Diffused Junction
- ! Low Forward Voltage Drop
- ! High Current Capability
- ! High Reliability
- ! High Surge Current Capability



Mechanical Data

- ! Case: DO-201AD, Molded Plastic
- ! Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ! Polarity: Cathode Band
- ! Weight: 1.2 grams (approx.)
- ! Mounting Position: Any
- ! Marking: Type Number
- ! Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

DO-201AD		
Dim	Min	Max
A	25.4	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T

A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	UF	UF	UF	UF	UF	UF	UF	UF	Unit	
		5400	5401	5402	5403	5404	5406	5407	5408		
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V	
Working Peak Reverse Voltage	V_{RWM}										
DC Blocking Voltage	V_R										
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	210	280	420	560	700	V	
Average Rectified Output Current (Note 1) @T _a = 55°C	I_o	3.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150								A	
Forward Voltage @I _f = 3.0A	V_{FM}	1.0			1.3		1.7			V	
Peak Reverse Current @T _a = 25°C At Rated DC Blocking Voltage @T _a = 100°C	I_{RM}	10 100								μA	
Reverse Recovery Time (Note 2)	t_{rr}	50					75				nS
Typical Junction Capacitance (Note 3)	C_j	80					50				pF
Operating Temperature Range	T_j	-65 to +125								°C	
Storage Temperature Range	T_{STG}	-65 to +150								°C	