

UF5400 THRU UF5408

Ultra Fast Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 3 A

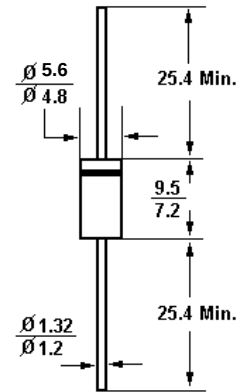
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low cost
- Ultrafast recovery time for high efficiency
- High current capability, low forward voltage
- High surge capability
- Low leakage

Mechanical Data

- **Case:** Molded plastic body, JEDEC DO-201AD
- **Terminals:** Plated Axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end.
- **Mounting Position:** Any

DO-201AD



Dimnsions in mm

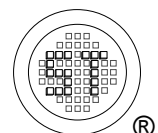
Absolute Maximum Ratings and Characteristics

Ratings 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%.

Parameter	Symbols	UF5400	UF5401	UF5402	UF5403	UF5404	UF5405	UF5406	UF5407	UF5408	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at Ta = 55 °C	I _{F(AV)}	3									A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	125									A
Maximum Forward Voltage at 3 A	V _F	1			1.3		1.7			V	
Maximum Reverse Current Ta = 25 °C at Rated Reverse Voltage Ta = 100 °C	I _R	10 150									µA
Maximum Reverse Recovery Time ¹⁾	t _{rr}	50					75				ns
Typical Junction Capacitance ²⁾	C _j	75									pF
Operating Junction Temperature Range	T _j	- 55 to + 150									°C
Storage Temperature Range	T _{stg}	- 55 to + 150									°C

¹⁾ Reverse recovery condition $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $t_{rr} = 0.25\text{ A}$.

²⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.



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