UF5400G THRU UF5408G

Ultra Fast Glass Passivated Rectifier

Reverse Voltage - 50 to 1000 V

Forward Current - 3 A

Features

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

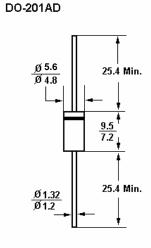
Mechanical Data

• 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



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%.

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Parameter	Symbols	UF5400G	UF5401G	UF5402G	UF5403G	UF5404G	UF5406G	UF5407G	UF5408G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	٧
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at Ta = 55 °C	I _{F(AV)}	3								Α
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	125								Α
Maximum Instantaneous Forward Voltage at 3 A	V _F	1 1.25 1.7					V			
$ \begin{array}{ll} \text{Maximum Reverse Current} & T_{\text{A}} = 25^{\circ}\text{C} \\ \text{at Rated Reverse Voltage} & T_{\text{A}} = 100^{\circ}\text{C} \\ \end{array} $	I _R	5 150								μΑ
Maximum Reverse Recovery Time 1)	t _{rr}	50 75						ns		
Typical Junction Capacitance 2)	C _j	75								pF
Operating Junction Temperature Range	Tj	- 65 to + 150								°C
Storage Temperature Range	T _{stg}	- 65 to + 150								°C
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 $^{^{1)}}$ Reverse recovery condition $\rm I_F$ = 0.5 A, $\rm I_R$ = 1 A, $\rm I_{rr}$ = 0.25 A.



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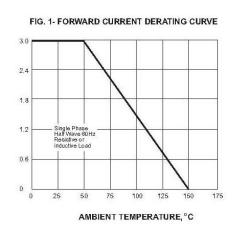


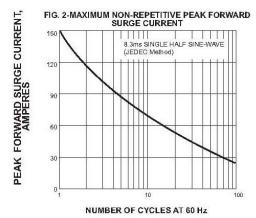
Dated: 18/03/2010 C Rev: 01

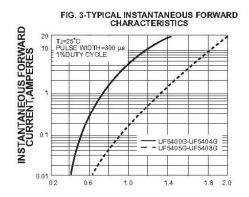
 $^{^{\}rm 2)}$ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

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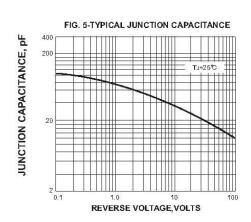
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

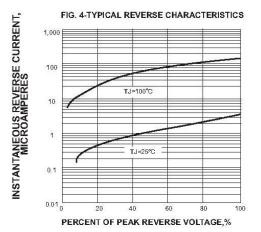


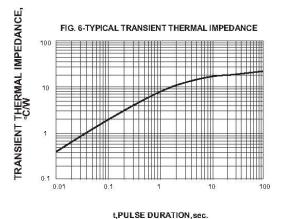




INSTANTANEOUS FORWARD VOLTAGE, VOLTS









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