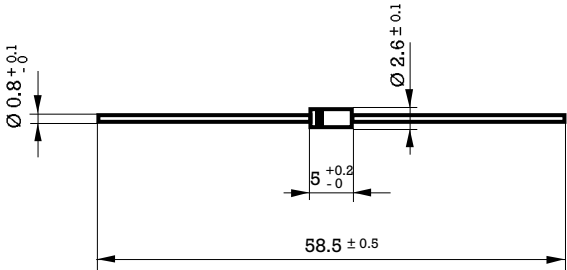


1 Amp. Glass Passivated Ultrafast Recovery Rectifier

Dimensions in mm. DO-41 (Plastic)  Mounting instructions 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 2 mm. to the body.	Voltage 50 to 1000 V. Current 1 A at 55 °C. HYPERECTIFIER® • Glass Passivated Junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode
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Maximum Ratings, according to IEC publication No. 134

		FUF 4001	FUF 4002	FUF 4003	FUF 4004	FUF 4005	FUF 4006	FUF 4007
V _{RRM}	Peak Recurrent reverse voltage (V)	50	100	200	400	600	800	1000
V _{RMS}	Maximum RMS voltage	35	70	140	280	420	560	700
V _{DC}	Maximum DC blocking voltage	50	100	200	400	600	800	1000
I _{F(AV)}	Forward current at Tamb = 55 °C	1 A						
I _{FRM}	Recurrent peak forward surge current	10 A						
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A						
t _{rr}	Max. reverse recovery time from I _F = 0.5 A ; I _R = 1 A ; I _{RR} = 0.25 A	50 ns				75 ns		
C _j	Typical Junction Capacitance at 1 MHz and reverse voltage of 4V _{DC}	15 pF						
T _j	Operating temperature range	– 65 to + 150 °C						
T _{stg}	Storage temperature range	– 65 to + 150 °C						
E _{RSM}	Maximum non repetitive peak reverse avalanche energy. I _R = 0.5A ; T _l = 25 °C	20 mJ						

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V_F	Max. forward voltage drop at $I_F = 1\text{ A}$	1.3 V	1.7 V
I_R	Max. reverse current at V_{RRM} at 25 °C	5 $\mu\text{ A}$	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	50 °C/W	

Rating And Characteristic Curves

