

1 Amp. Silicon Rectifier Diodes

<p>Dimensions in mm.</p> <p>Mounting instructions</p> <ol style="list-style-type: none"> 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. 	<p>DO-41 (Plastic)</p> <p>Voltage 50 to 1.000 V.</p> <p>Current 1.0 A. at 75°C.</p> <ul style="list-style-type: none"> • Low cost • Diffused 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

		1N 4001F	1N 4002F	1N 4003F	1N 4004F	1N 4005F	1N 4006F	1N 4007F
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_{amb} = 75^\circ\text{C}$	1 A						
I_{FRM}	Recurrent peak forward current	10 A						
I_{FSM}	8.3 ms. peak forward surge current (jedec method)	30 A						
T_j	Max. operating temperature	175°C						
T_{stg}	Storage temperature range	- 65 to + 175°C						

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

V_F	Max forward voltage drop at $I_F = 1 \text{ A}$	1.1V
I_R	Max. reverse current at V_{RRM} at 25°C at 100°C	5 μA 50 μA
R_{th-a}	Max. thermal resistance ($l = 10 \text{ mm.}$)	50° C/W

Characteristic Curves

FAGOR ELECTRONICS

