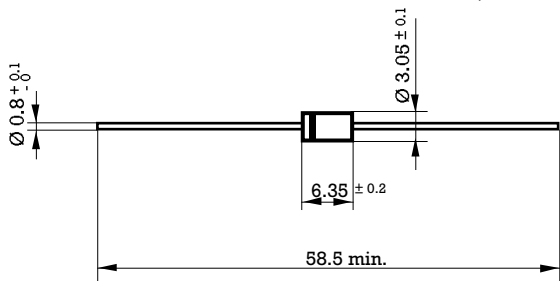


## 1 Amp. Silicon Rectifier Diodes

<p>Dimensions in mm.</p> <p>DO-15 (Plastic)</p>  <p>Mounting instructions</p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350°C.</li> <li>3. Max. soldering time, 3,5 sec.</li> <li>4. Do not bend lead at a point closer than 2 mm. to the body.</li> </ol>	<p>Voltage 50 to 1600 V.</p> <p>Current 1.0 A. at 75°C.</p>
	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Diffused junction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>

### Maximum Ratings, according to IEC publication No. 134

		1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	BY 133	P 513
$V_{RRM}$	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000	1300	1600
$I_{F(AV)}$	Forward current at $T_{amb} = 75^{\circ}\text{C}$	1 A								
$I_{FRM}$	Recurrent peak forward current	10 A								
$I_{FSM}$	10 ms. peak forward surge current	50 A								
$T_j$	Operating temperature range	- 65 to + 150 °C								
$T_{stg}$	Storage temperature range	- 65 to + 150 °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 $\mu\text{A}$ 100 $\mu\text{A}$
$R_{thj-a}$	Max. thermal resistance ( $l = 10\text{ mm.}$ )	60° C/W

## Characteristic Curves

