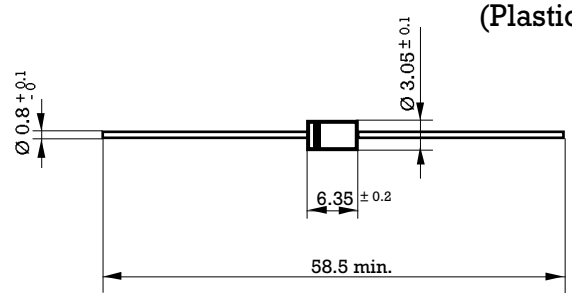


1 Amp. Fast Recovery Silicon Diodes

<p>Dimensions in mm.</p>  <p>DO-15 (Plastic)</p>	<p>Voltage 50 to 500 V.</p> <p>Current 1.0 A. at 45°C.</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. 	<ul style="list-style-type: none"> • Fast Recovery Diodes • Diffused junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode

Maximum Ratings, according to IEC publication No. 134

		1P643	1P644	1P645	1P646	1P647	1P648
V_{RRM}	Peak recurrent and non recurrent reverse voltage (V)	50	100	225	300	400	500
$I_{F(AV)}$	Forward current, R load at $T_{amb} = 45^\circ C$	1 A					
I_{FRM}	Recurrent peak forward current	5 A					
I_{FSM}	8.3 ms. peak forward surge current (Jedec method)	35 A					
t_{rr}	Max. reverse recovery time from $I_F = 0.5 A$ $I_R = 1 A$ $I_{RR} = 0.25 A$	250 ns					
T_j	Operating temperature range	- 65 to + 125 °C					
T_{stg}	Storage temperature range	- 65 to + 125 °C					

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

V_F	Forward voltage drop at $I_F = 1 A$	1.3 V
I_R	Reverse current at V_{RRM}	5 μA
C_d	Typ. capacitance at 1 MHz	2 pF
R_{thj-a}	Max. thermal resistance ($l = 10 mm.$)	60° C/W

Characteristic Curves

