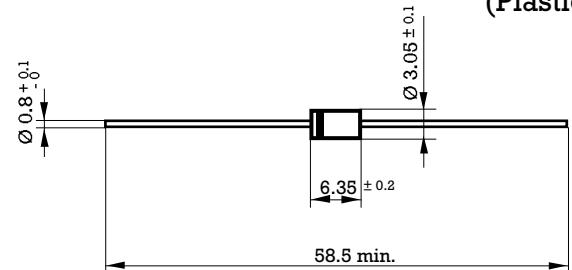


1.5 Amp. Fast Recovery Silicon Diodes

<p>Dimensions in mm.</p>  <p>DO-15 (Plastic)</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>Voltage 100 to 1000 V.</p> <p>Current 1.5 A. at 45 °C.</p> <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
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Maximum Ratings, according to IEC publication No. 134

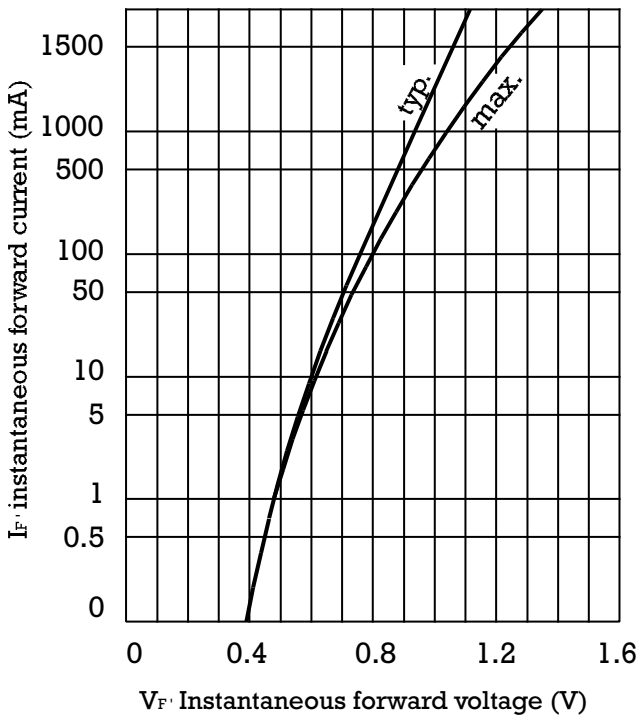
		FF 1501	FF 1502	FF 1504	FF 1506	FF 1508	FF 1510
V_{RRM}	Peak recurrent and non recurrent reverse voltage (V)	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current, R load at $T_{amb} = 45\text{ °C}$	1.5 A					
I_{FRM}	Recurrent peak forward current	5 A					
I_{FSM}	10 ms. peak forward surge current at $T_j = 25\text{ °C}$	50 A					
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$ $I_R = 1\text{ A}$ $I_{RR} = 0.25\text{ A}$	150 ns			250 ns		
T_j	Operating temperature range	- 65 to + 125 °C					
T_{stg}	Storage temperature range	- 65 to + 125 °C					

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

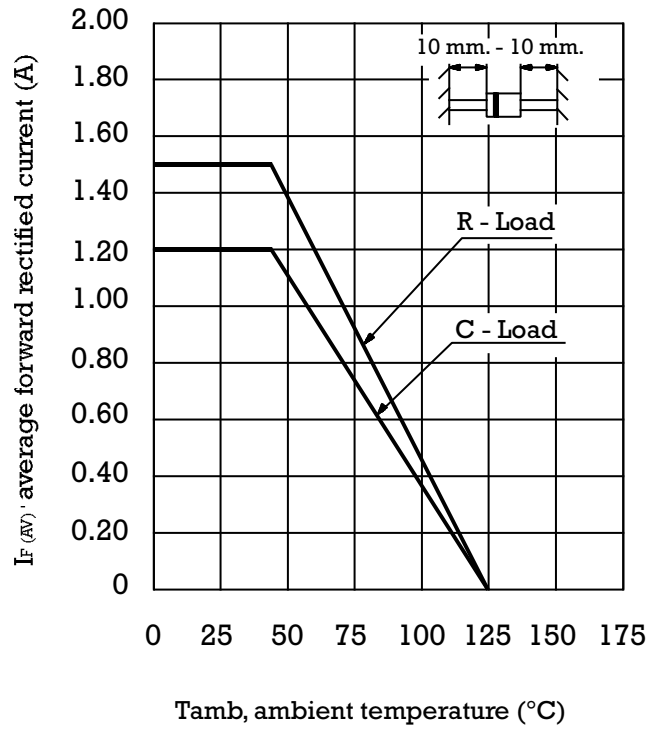
V_F	Forward voltage drop at $I_F = 1.5\text{ A}$	1.3 V
I_R	Reverse current at V_{RRM} at 25 °C	5 μ A
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	60 °C/W

Characteristic Curves

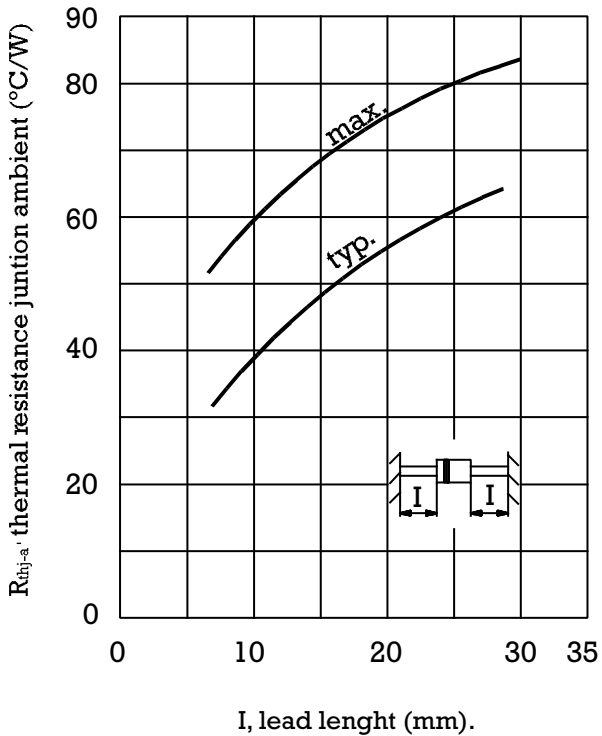
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



THERMAL RESISTANCE



TYPICAL JUNCTION CAPACITANCE

