

1 Amp. Fast Recovery Silicon Diodes

<p>Dimensions in mm.</p> <p style="text-align: right;">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 400 to 1000 V.</p> <p>Current 1.0 A. at 50°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

		BA 157	BA 158	BA 159
V_{RRM}	Peak recurrent and non recurrent reverse voltage (V)	400	600	1000
$I_{F(AV)}$	Forward current, R load at $T_{amb} = 50\text{ °C}$	1 A		
I_{FRM}	Recurrent peak forward current	5 A		
I_{FSM}	10 ms. peak forward surge current at $T_j = 25\text{ °C}$	35 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 $I_F = 1\text{ A}$	1.3V
I_R	Reverse current at V_{RRM} at 25 °C	5 μ A
C_d	Capacitance BA 157 BA 158 BA 159 at 1 MHz and V_{RRM}	2,2 pF 2 pF 1,8 pF
R_{thj-a}	Max. thermal resistance ($l = 10\text{ mm.}$)	60° C/W

Characteristic Curves

