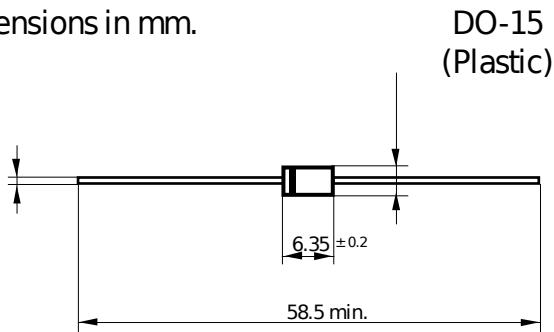


## 1 Amp. Fast Recovery Silicon Diodes

Dimensions in mm.



DO-15  
(Plastic)

Voltage  
400 to 1000 V.

Current  
1.0 A. at 50°C.

### Mounting instructions

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.

### • 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

		<b>BA 157</b>	<b>BA 158</b>	<b>BA 159</b>
$V_{RRM}$	Peak recurrent and non recurrent reverse voltage (V)	400	600	1000
$I_{F(AV)}$	Forward current, R load at Tamb = 50 °C		1 A	
$I_{FRM}$	Recurrent peak forward current		5 A	
$I_{FSM}$	10 ms. peak forward surge current at $T_j = 25^\circ\text{C}$		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 Tamb = 25°C

$V_F$	Forward voltage drop at $I_F = 1 \text{ A}$	1.3 V
$I_R$	Reverse current at $V_{RRM}$ at 25 °C	5 $\mu\text{A}$
$C_d$	Capacitance BA 157 BA 158 at 1 MHz and $V_{RRM}$ BA 159	2,2 pF 2 pF 1,8 pF
$R_{thj-a}$	Max. thermal resistance ( $l = 10 \text{ mm.}$ )	60° C/W

## Characteristic Curves

