

## SILICON PLANAR DIODES

Switching diodes in the subminiature DO-34 glass envelope, intended for band switching in v.h.f. television tuners. Special feature of the diodes is their low capacitance.

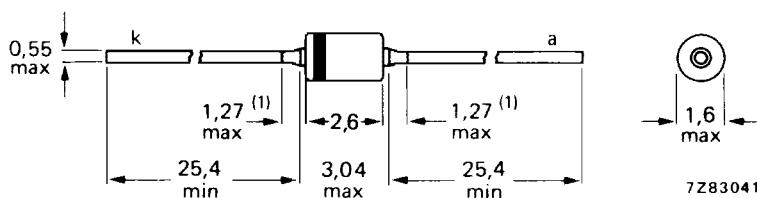
## QUICK REFERENCE DATA

Continuous reverse voltage	$V_R$	max.	35 V		
Forward current (d.c.)	$I_F$	max.	100 mA		
Junction temperature	$T_j$	max.	150 °C		
				BA482	BA483
Diode capacitance	$C_d$	<	1,2	1,0	1,6
$V_R = 3$ V; $f = 1$ to 100 MHz		typ.	0,4	0,5	0,5
Series resistance at $f = 200$ MHz	$r_D$	<	0,7	1,2	1,2
$I_F = 3$ mA	$r_D$	typ.	0,4	0,5	0,5
$I_F = 10$ mA					$\Omega$
				BA484	

## MECHANICAL DATA

Dimension: in mm

Fig. 1 SOD-68 (DO-34).



(1) Lead diameter in this zone uncontrolled.  
The marking band indicates the cathode.  
The diodes are type branded.

## RATINGS

Limiting values in accordance with the Absolute Maximum System (IEC 134)

Continuous reverse voltage	V <sub>R</sub>	max.	35 V
Forward current (d.c.)	I <sub>F</sub>	max.	100 mA
Storage temperature	T <sub>stg</sub>	-	-65 to + 150 °C
Junction temperature	T <sub>j</sub>	max.	150 °C

## THERMAL RESISTANCE

From junction to ambient mounted on printed board

$$\text{lead length} = 5,0 \text{ mm} \quad R_{\text{th j-a}} = 0,6 \text{ K/mW}$$

## CHARACTERISTICS

T<sub>j</sub> = 25 °C unless otherwise specified

Forward voltage

$$I_F = 100 \text{ mA} \quad V_F < 1,2 \text{ V}$$

Reverse current

$$V_R = 20 \text{ V} \quad I_R < 100 \text{ nA}$$

$$V_R = 20 \text{ V}; T_{\text{amb}} = 75 \text{ °C} \quad I_R < 1 \mu\text{A}$$

Diode capacitance

$$V_R = 3 \text{ V}; f = 1 \text{ to } 100 \text{ MHz} \quad C_d \quad \begin{array}{|c|c|c|c|c|} \hline & BA482 & BA483 & BA484 & \\ \hline \text{typ.} & 0,8 & 0,7 & 1,0 & \text{pF} \\ < & 1,2 & 1,0 & 1,6 & \text{pF} \\ \hline \end{array}$$

Series resistance at f = 200 MHz

$$I_F = 3 \text{ mA} \quad r_D \quad \begin{array}{|c|c|c|c|c|} \hline & BA482 & BA483 & BA484 & \\ \hline \text{typ.} & 0,6 & 0,8 & 0,8 & \Omega \\ < & 0,7 & 1,2 & 1,2 & \Omega \\ \hline \end{array}$$

Silicon planar diodes

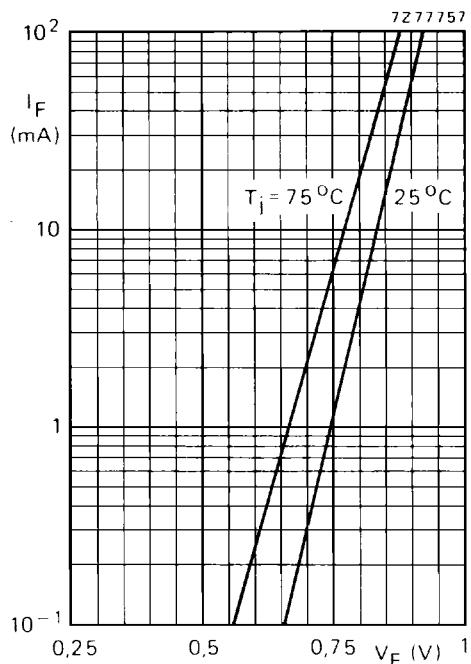


Fig. 2 Typical values.

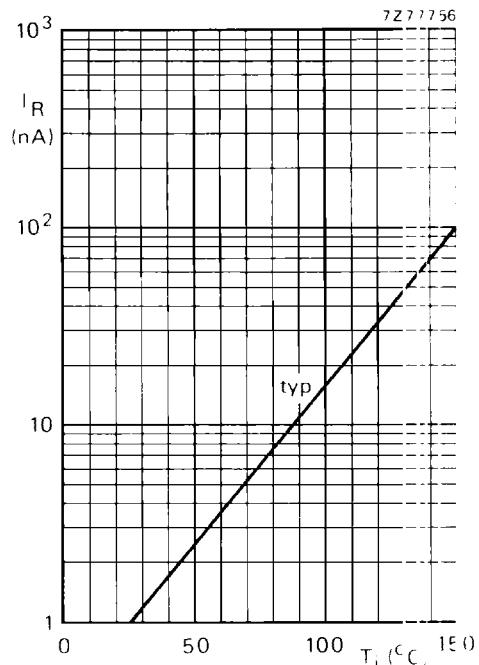


Fig. 3  $V_R = 20$  V.

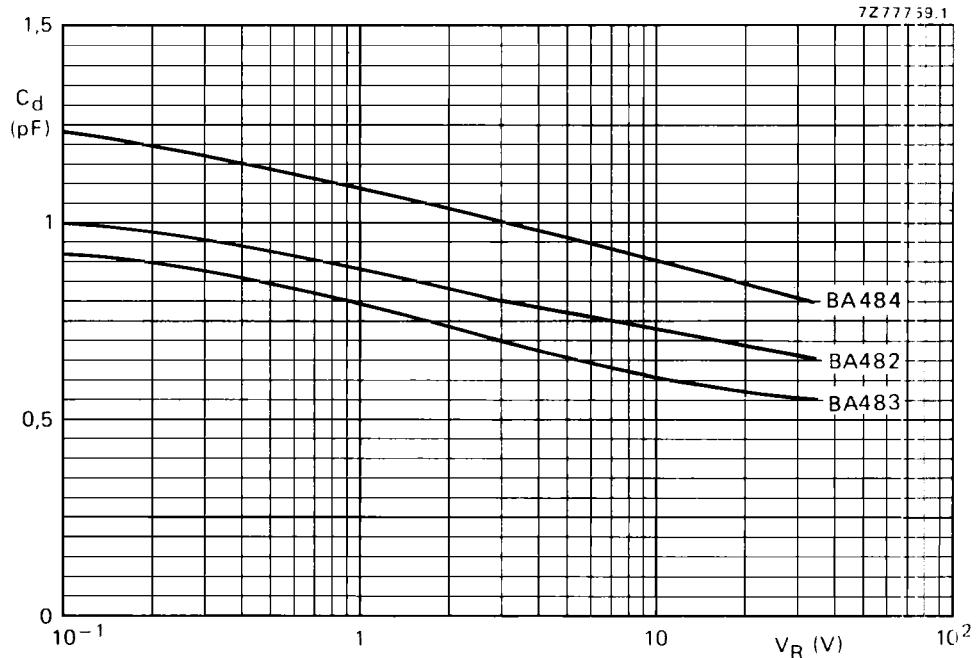


Fig. 4 Typical values;  $f = 1$  to 100 MHz;  $T_j = 25^\circ\text{C}$ .

BA482  
BA483  
BA484

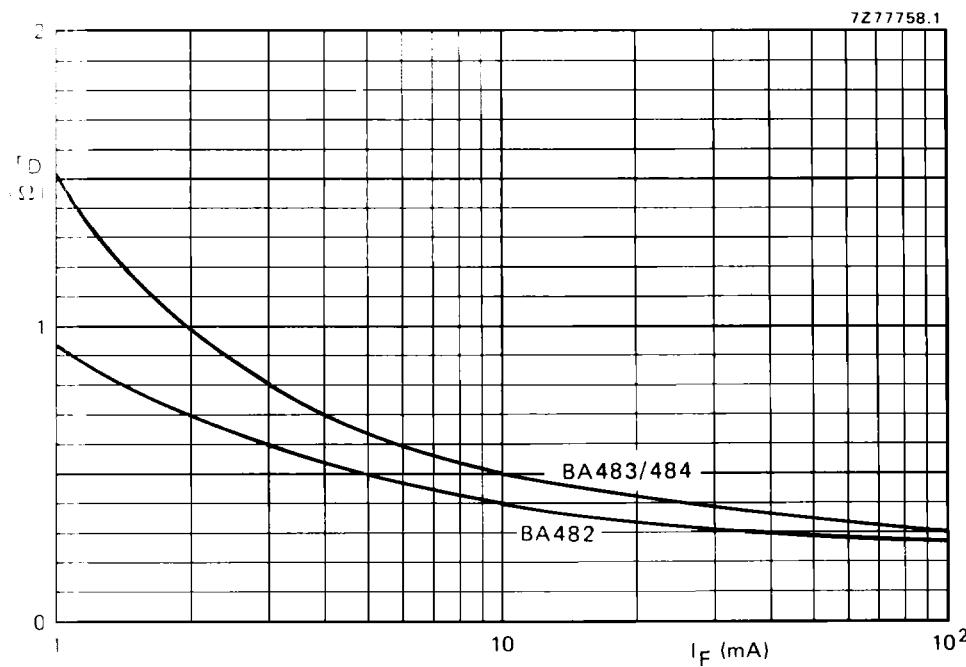


Fig. 5 Typical values;  $f = 200$  MHz;  $T_j = 25$  °C.