

Silicon Diode

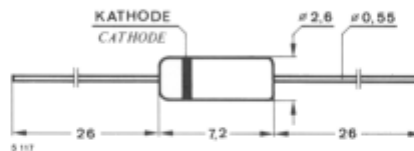
BA173

300V / 300mA

DATASHEET

OEM – Telefunken

Source: Telefunken Databook 1977

BA 173**Silizium-Diffusions-Diode**
Silicon diffusion diode**Anwendungen:** Klemmschaltungen in Farb-FS-Geräten mit hohen Betriebsspannungen**Applications:** Clamping circuits in colour TV-receivers, with high supply voltage**Abmessungen in mm**
Dimensions in mm

Normgehäuse
Case
51 A 2 DIN 41880
JEDEC DO 7
Gewicht · Weight
max. 0,2 g

Absolute Grenzwerte
Absolute maximum ratings

Periodische Spitzensperrspannung

Repetitive peak reverse voltage

$$\frac{I_p}{T} = 0,01, I_p \leq 0,1 \text{ ms}$$

U_{RRM}	350	V
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Sperrspannung

Reverse voltage

U_R	300	V
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Periodischer Durchlaßspitzenstrom

Repetitive peak forward current

$$\frac{I_p}{T} = 0,01, I_p \leq 10 \text{ ms}$$

I_{FRM}	3	A
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Durchlaßstrom

Forward current

I_F	300	mA
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Sperrschichttemperatur

Junction temperature

t_j	150	°C
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Lagerungstemperaturbereich

Storage temperature range

t_{stg}	-65...+150	°C
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Wärmewiderstand Thermal resistance

Min. Typ. Max.

Sperrschicht-Umgebung
Junction ambient

$l = 4 \text{ mm}$, $i_L = \text{konstant}$
constant

R_{thJA}

450 °C/W

Kenngrößen Characteristics

$t_j = 25 \text{ °C}$

Durchlaßspannung
Forward voltage

$I_F = 100 \text{ mA}$

U_F

1 V

Sperrstrom
Reverse current

$U_R = 300 \text{ V}$

I_R

0,08 1 μA

Diodenkapazität
Diode capacitance

$f = 1 \text{ MHz}$, $U_R = 30 \text{ V}$

$U_R = 150 \text{ V}$

C_D

3,4 pF

C_D

2 pF

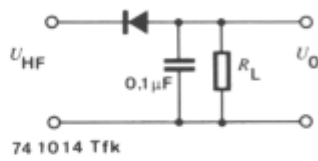
Rückwärtserholzeit
Reverse recovery time

$I_F = I_R = 10 \text{ mA}$, $i_R = 1 \text{ mA}$

t_{rr}

350 500 ns

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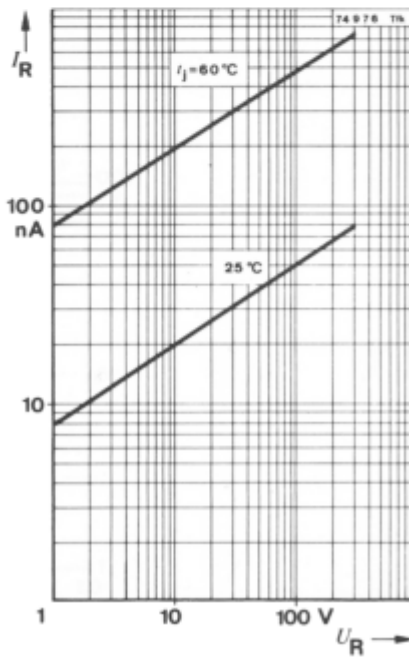
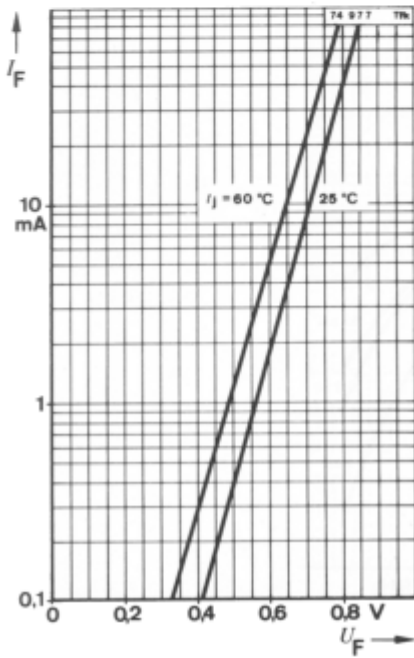


$R_L = 2k\Omega$ bzw. $33k\Omega$

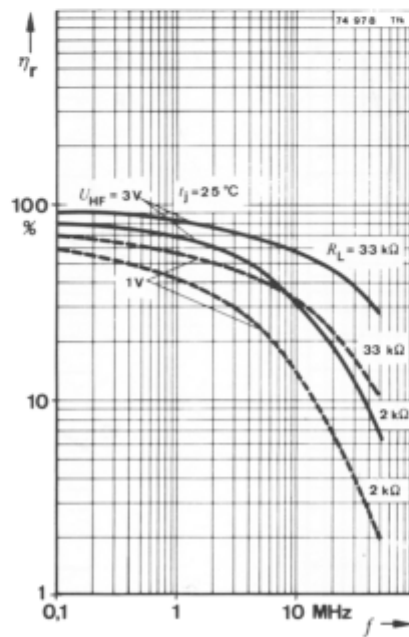
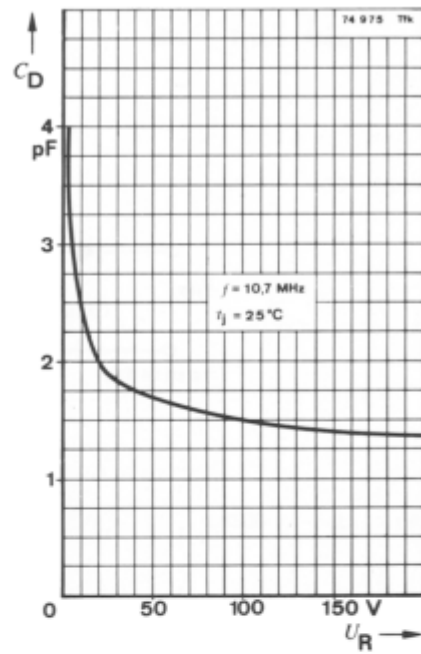
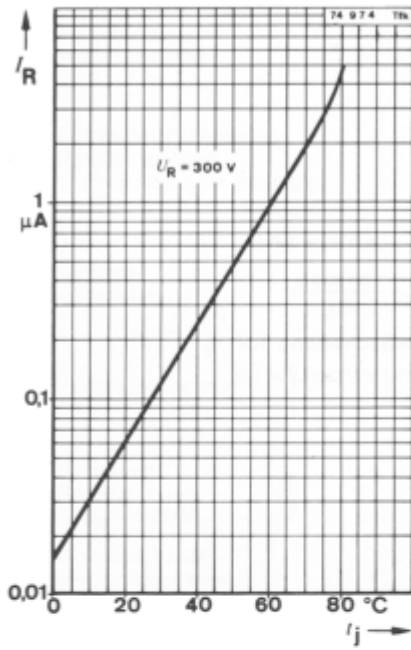
$$\eta_r = \frac{U_0 \times 100 \%}{U_{HF}}$$

Meßschaltung für: η_r

Test circuit for: η_r



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