

# Silicon Stabi Diode

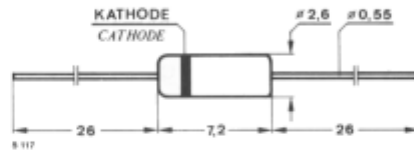
## **BZ102/0V7**

0,7V / 250mA

# DATASHEET

OEM – Telefunken

Source: Telefunken Databook 1977

**BZ 102/...****Silizium-Diffusions-Stabilisator-Dioden  
Silicon diffusion voltage stabilising diodes****Anwendungen:** Spannungsstabilisierung und Spannungsbegrenzung**Applications:** Voltage stabilisation and voltage regulation**Abmessungen in mm  
Dimensions in mm**

Normgehäuse  
Case  
51 A 2 DIN 41880  
JEDEC DO 7  
Gewicht · Weight  
max. 0,3 g

**Absolute Grenzdaten  
Absolute maximum ratings**

Durchlaßstrom Forward current	<b>BZ 102/0 V 7</b>	$I_F$	250	mA
	<b>BZ 102/1 V 4</b>	$I_F$	130	mA
	<b>BZ 102/2 V 1</b>	$I_F$	80	mA
	<b>BZ 102/2 V 8</b>	$I_F$	60	mA
	<b>BZ 102/3 V 4</b>	$I_F$	50	mA
Verlustleistung Power dissipation $l = 4 \text{ mm}, t_L \leq 45^\circ\text{C}$		$P_V$	250	mW
Sperrschichttemperatur Junction temperature		$t_j$	150	°C
Lagerungstemperaturbereich Storage temperature range		$t_{stg}$	-55...+150	°C

**Wärmewiderstand  
Thermal resistance**

	Min.	Typ.	Max.
Sperrschicht-Umgebung Junction ambient $l = 4 \text{ mm}, t_L = \text{konstant}$ constant			400 °C/W
			$R_{thJA}$

# BZ 102/...

**Kenngrößen**  
**Characteristics**

Min. Typ. Max.

$t_j = 25^\circ\text{C}$

Durchlaßspannung  
Forward voltage

$I_F = 5\text{ mA}$

Part Number	Symbol	Min.	Typ.	Max.	Unit
BZ 102/0V7	$U_F$	0,65		0,75	V
BZ 102/1V4	$U_F$	1,3		1,5	V
BZ 102/2V1	$U_F$	1,9		2,3	V
BZ 102/2V8	$U_F$	2,6		3,0	V
BZ 102/3V4	$U_F$	3,2		3,7	V

Temperaturkoeffizient von  $U_F$   
Temperature coefficient of  $U_F$

$I_F = 5\text{ mA}$

Symbol	Min.	Typ.	Max.	Unit
$-TK_{UF}$		23	$26 \cdot 10^{-4}$	/K

Sperrstrom  
Reverse current

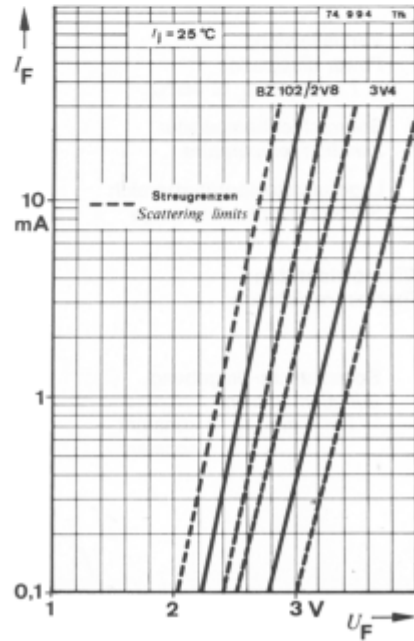
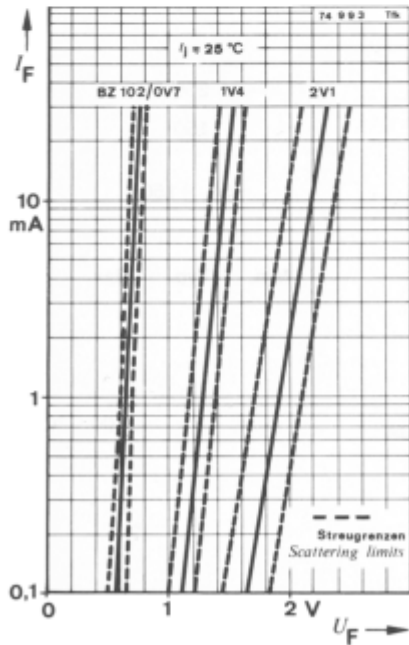
$U_R = 5\text{ V}$

Symbol	Min.	Typ.	Max.	Unit
$I_R$			1	$\mu\text{A}$

Differentieller Durchlaßwiderstand  
Differential forward resistance

$I_F = 5\text{ mA}$

Part Number	Symbol	Min.	Typ.	Max.	Unit
BZ 102/0V7	$r_f$		6,5	10	$\Omega$
BZ 102/1V4	$r_f$		13	20	$\Omega$
BZ 102/2V1	$r_f$		19,5	30	$\Omega$
BZ 102/2V8	$r_f$		26	40	$\Omega$
BZ 102/3V4	$r_f$		32,5	50	$\Omega$



**BZ 102/...**

