

Germanium Diode

AA132

100V / 50mA

DATASHEET

OEM – Telefunken

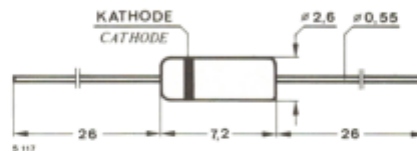
Source: Telefunken Databook 1977

AA 132**Germanium-Spitzendiode
Germanium point contact diode**

Anwendungen: Allgemein, für hohe Betriebsspannungen.

Applications: General purpose, for high supply voltages.

**Abmessungen in mm
Dimensions in mm**



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

Absolute Grenzdaten Absolute maximum ratings	t_{amb}	25 °C	60 °C	
Stoßsperrspannung Surge reverse voltage	U_{RSM}	120	110	V
Periodische Spitzensperrspannung Repetitive peak reverse voltage	U_{RRM}	110	100	V
Sperrspannung Reverse voltage	U_R	100	90	V
Stoßdurchlaßstrom Surge forward current	I_{FSM}	500	500	mA
Periodischer Durchlaßspitzenstrom Repetitive peak forward current	I_{FRM}	150	80	mA
Durchlaßstrom Forward current	I_F	50	25	mA
Durchlaßstrom, Mittelwert Average forward current $U_R = 0$ $u_m = U_{RRM}$	I_{FAV} I_{FAV}	50 15	20 7	mA mA
Sperrschichttemperatur Junction temperature	t_j		100	°C
Lagerungstemperaturbereich Storage temperature range	t_{stg}	-55...+100		°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}

400 °C/W

Kenngrößen Characteristics

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

Durchlaßspannung
Forward voltage

$I_F = 0,1 \text{ mA}$

$I_F = 10 \text{ mA}$

$I_F = 50 \text{ mA}$

U_F

0,17

V

U_F

1,35

1,8

V

$U_F^{1)}$

3,2

V

Sperrstrom

Reverse current

$U_R = 3 \text{ V}$

$U_R = 10 \text{ V}$

$U_R = 60 \text{ V}$

$U_R = 100 \text{ V}$

I_R

4

μA

I_R

6

10

μA

I_R

38

120

μA

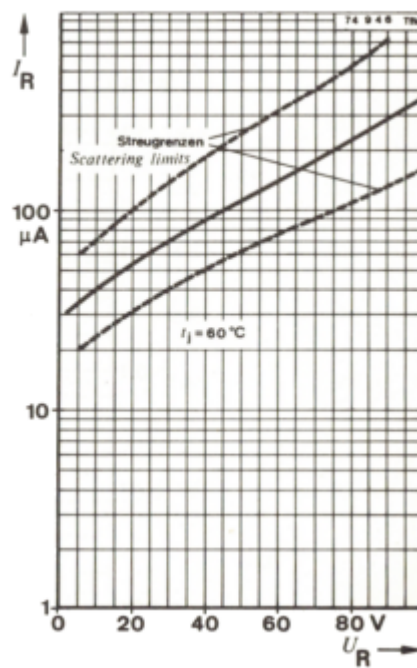
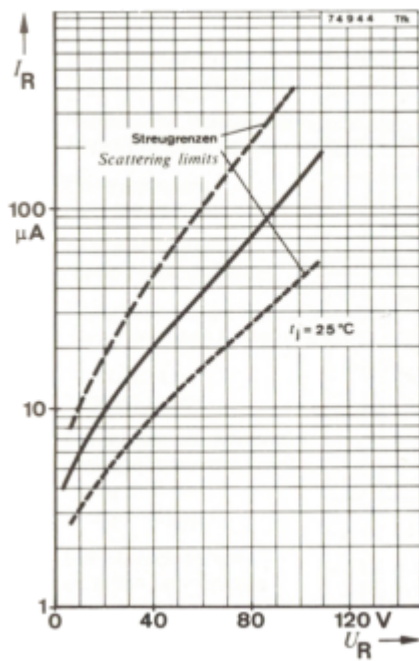
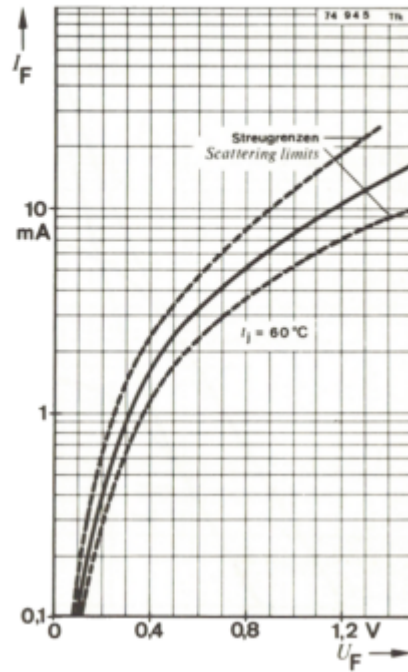
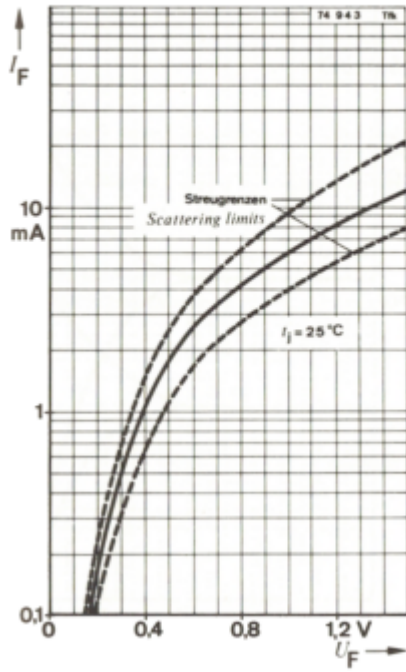
I_R

130

μA

¹⁾ $\frac{t_p}{T} = 0,01$, $t_p = 0,3 \text{ ms}$

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