

# Silicon Diode

## **BY202/3**

300V / 1,5A

# DATASHEET

OEM – Telefunken

Source: Telefunken Databook 1977

# BY 202/...

## Silizium-Mesa-Dioden Silicon Mesa diodes

**Anwendungen:** Schneller Gleichrichter und Schalter z. B. für zeilenfrequenten Betrieb im Fernsehgerät und Schaltnetzteile.

**Applications:** Fast rectifier and switch for example for TV-line output circuits and switch mode power supply.

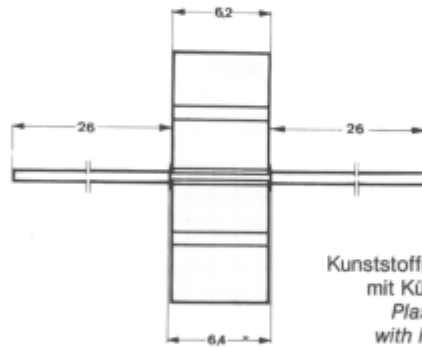
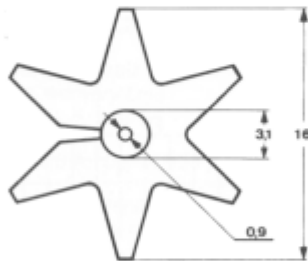
**Wesentliche Merkmale:**

- Hohe Sperrspannung
- Kurze Schaltzeit
- Geringe Umschaltverluste

**Features:**

- High reverse voltage
- Short switching time
- Low switching loss

**Abmessungen in mm  
Dimensions in mm**



Kunststoffgehäuse  
mit Kühlkörper  
Plastic case  
with heat sink  
Gewicht - Weight  
max. 4,5 g

**Typenbezeichnung** = Kathodenanschluß  
**Type designation** = Cathode terminal

**Absolute Grenzdaten  
Absolute maximum ratings**

Periodische Spitzensperrspannung  
Repetitive peak reverse voltage  
 $f \leq 20 \text{ kHz}, t \leq 12 \mu\text{s}$

BY 202/2	$U_{RRM}$	250	V
BY 202/3	$U_{RRM}$	350	V
BY 202/4	$U_{RRM}$	450	V
BY 202/5	$U_{RRM}$	550	V
BY 202/6	$U_{RRM}$	650	V

# BY 202/...

Sperrspannung, Scheitelsperrspannung  
 Reverse voltage, crest working reverse voltage  
 Fig. 1

$U_R = U_{RWM}$	200	V
$U_R = U_{RWM}$	300	V
$U_R = U_{RWM}$	400	V
$U_R = U_{RWM}$	500	V
$U_R = U_{RWM}$	600	V

Durchlaßstrom, Mittelwert  
 Average forward current  
 Fig. 3 bei  $U_R$

$$R_{thJA} \leq 50^\circ\text{C/W}$$

$I_{FAV}$	1,5	A
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Periodischer Durchlaßspitzenstrom  
 Repetitive peak forward current

$I_{FRM}$	10	A
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Stoßdurchlaßstrom  
 Surge forward current  
 $t_p \leq 10 \text{ ms}$

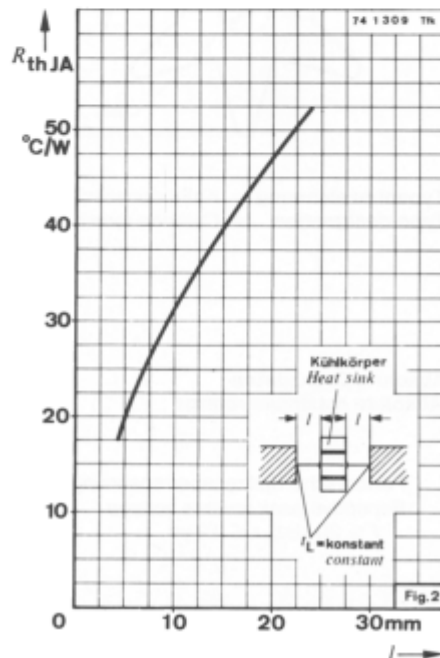
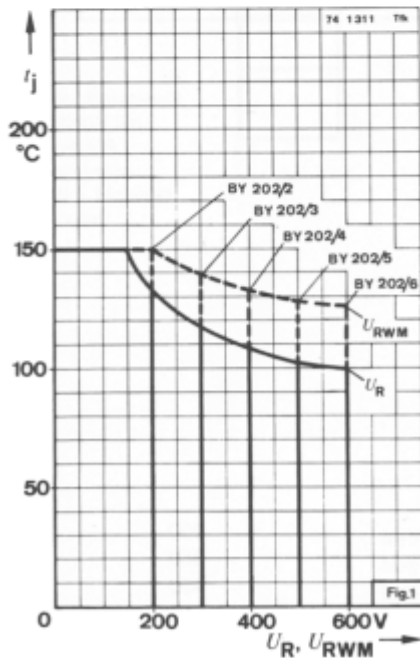
$I_{FSM}$	40	A
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Sperrschichttemperatur  
 Junction temperature

$t_j$	150	°C
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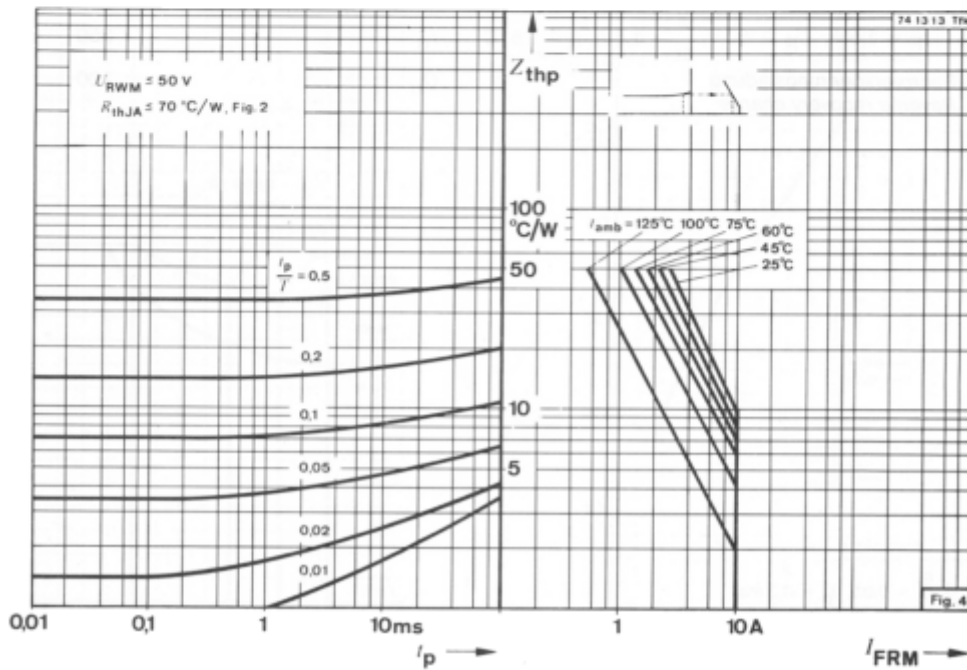
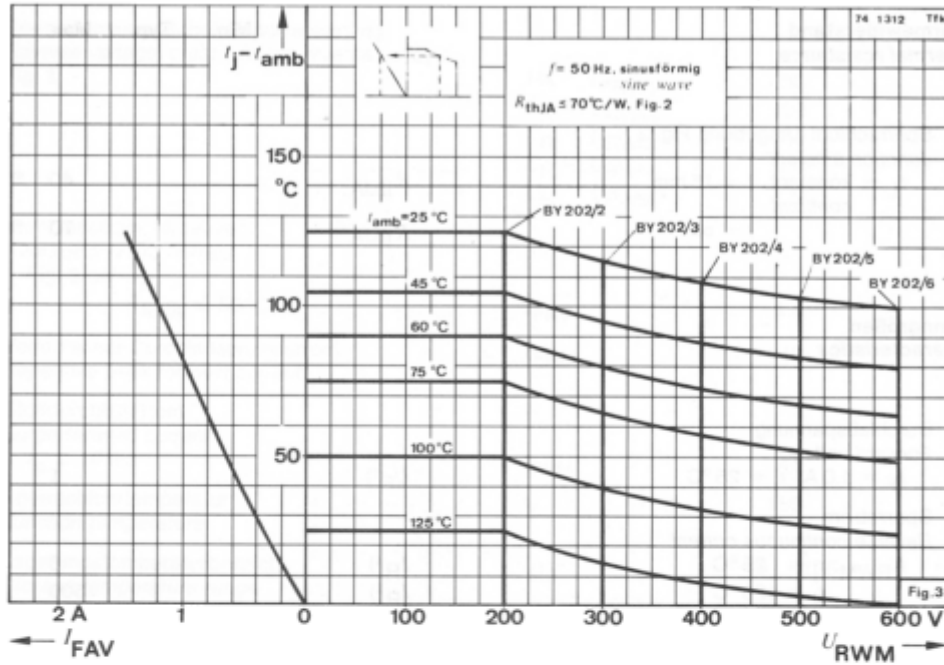
Lagerungstemperaturbereich  
 Storage temperature range

$t_{stg}$	-40...+125	°C
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**BY 202/...**