

查询EA53供应商

# PHILIPS

捷多邦, 专业

PCB打样工厂

## EA53

MEASURING DIODE for frequencies  $f < 100 \text{ Mc/s}$

### HEATING

Indirect by A.C. or D.C.; series or parallel supply

Heater voltage  $V_f = 6.3 \text{ V}$

Heater current  $I_f = 300 \text{ mA}$

### CAPACITANCE

Between anode and cathode

$C_d < 0.5 \text{ pF}$

### TYPICAL CHARACTERISTICS

Heater voltage

$V_f = 6.3 \text{ V}$

Diode current

$I_d = 0.5 \text{ mA}$

Diode voltage

$V_d < 3 \text{ V}$

### LIMITING VALUES (Absolute limits)

Peak inverse voltage

at frequencies lower than  $100 \text{ Mc/s}$

$V_d \text{ inv}_p (f < 100 \text{ Mc/s}) = \text{max. } 1000 \text{ V}$

at frequencies higher than  $100 \text{ Mc/s}$

$V_d \text{ inv}_p (f > 100 \text{ Mc/s}) = \text{max. } \frac{100}{f} \times 1000 \text{ V}^1)$

Cathode current (heater voltage from 5.6 to 7.0 volts)

$I_k = \text{max. } 300 \text{ }\mu\text{A}$

Peak cathode current (heater voltage from 5.6 to 7.0 volts)

$I_{kp} = \text{max. } 5 \text{ mA}^2)$

Voltage between heater and cathode

$V_{kf} = \text{max. } 50 \text{ V}$

External resistance between heater and cathode

$R_{kf} = \text{max. } 20 \text{ k}\Omega$

Heater voltage

$V_f = \text{max. } 7.0 \text{ V}$   
 $\text{min. } 5.6 \text{ V}$



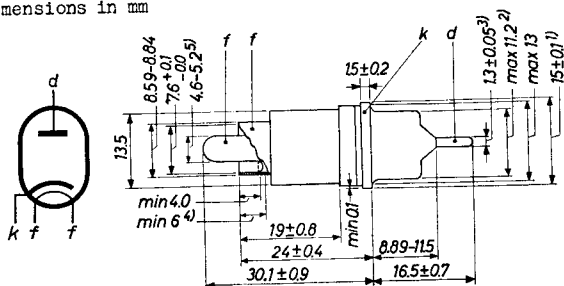
$f$  in  $\text{Mc/s}$

for frequencies lower than  $100 \text{ c/s}$

$I_{kp} = \text{max. } 0.3 + 0.047 f \text{ mA } (f \text{ in c/s})$

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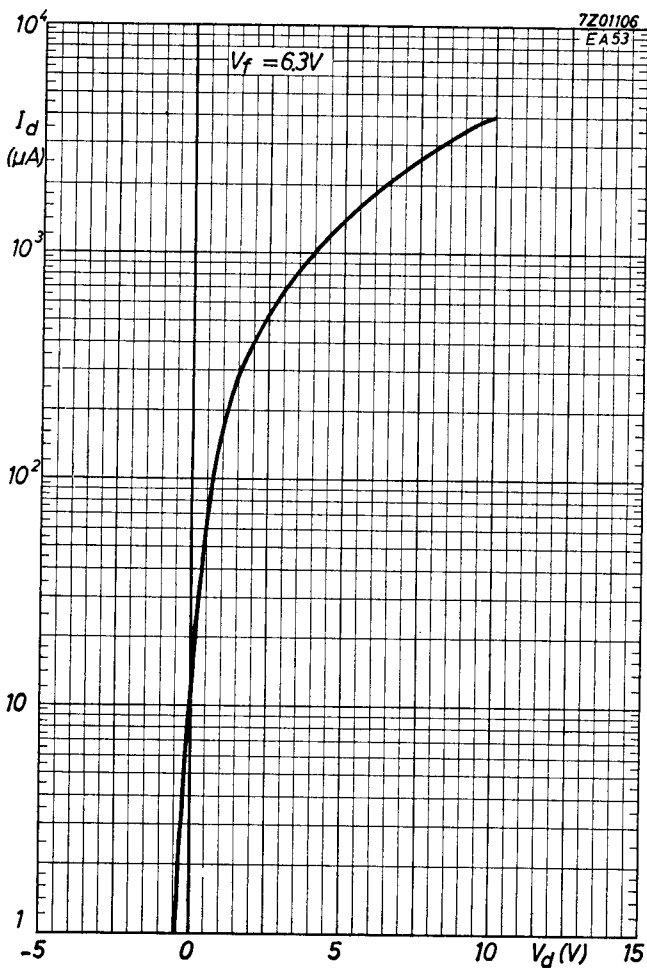
Dimensions in mm



- <sup>1)</sup> In order to avoid strain, the connection to the cathode disc should be sufficiently flexible
- <sup>2)</sup> Eccentricity with respect to the cathode disc max. 0.35 mm
- <sup>3)</sup> Eccentricity with respect to the cathode disc max. 0.25 mm
- <sup>4)</sup> This dimension defines the length of the cylindrical section.
- <sup>5)</sup> The max. dimension includes the eccentricity

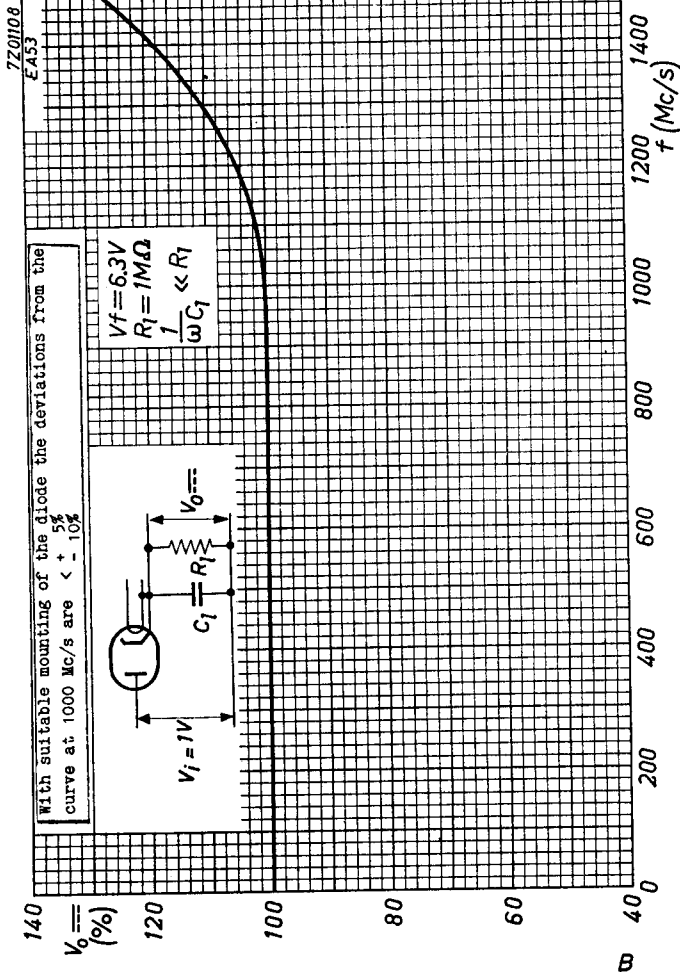
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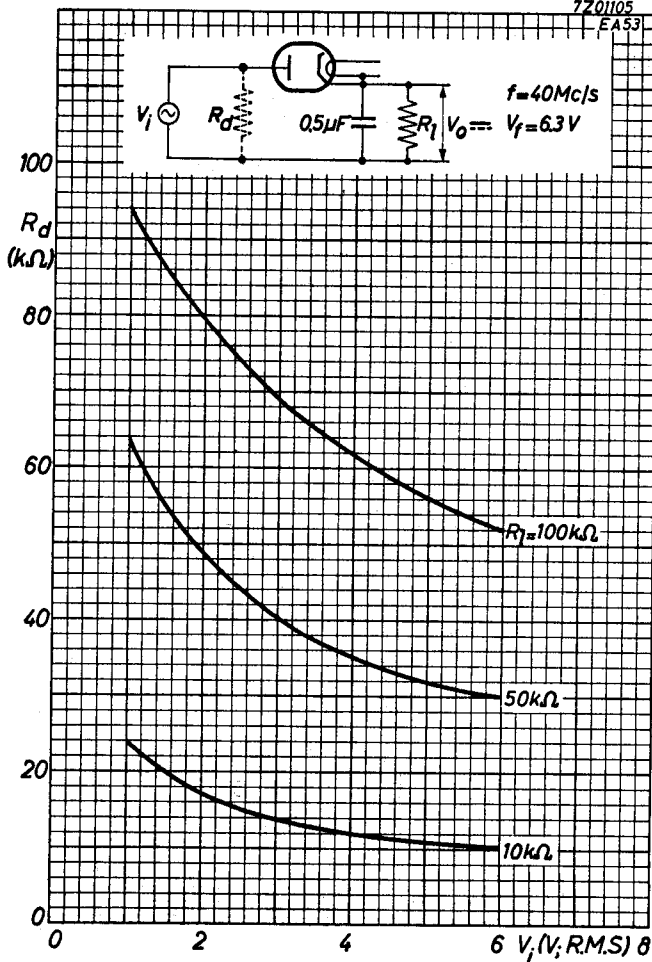


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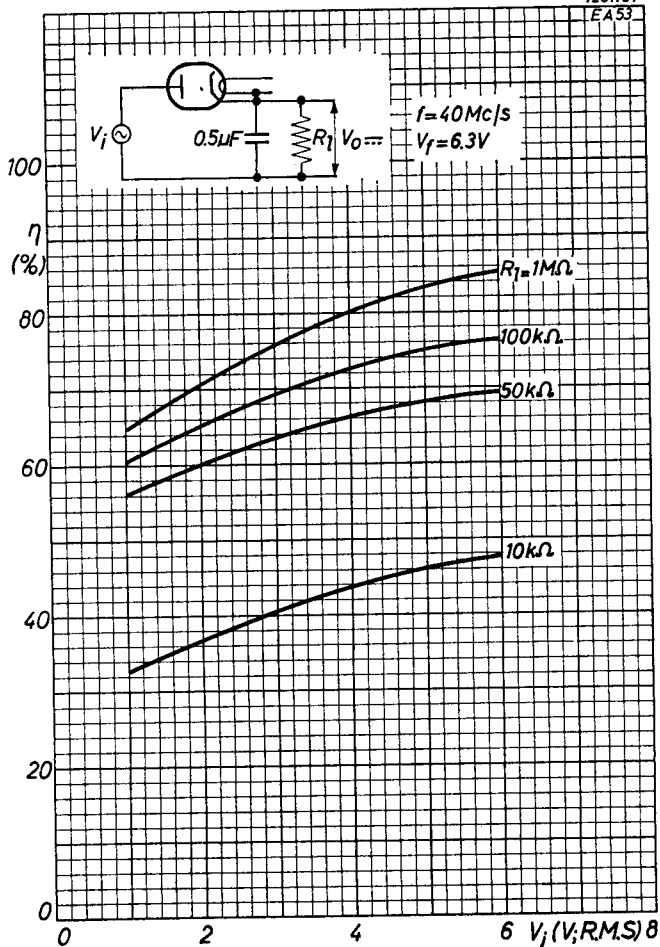
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| page | sheet | date       |
| 1    | 1     | 1962.09.09 |
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| 3    | A     | 1962.09.09 |
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| 5    | C     | 1962.09.09 |
| 6    | D     | 1962.09.09 |
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