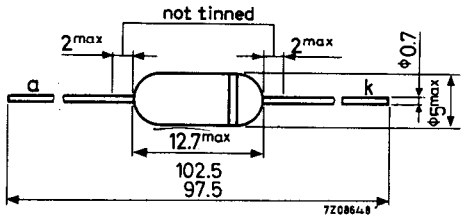
GERMANIUM DIODE

Germanium diode in all glass construction for general purposes.

MECHANICAL DATA Dimensions in mm



The coloured band indicates the cathode side

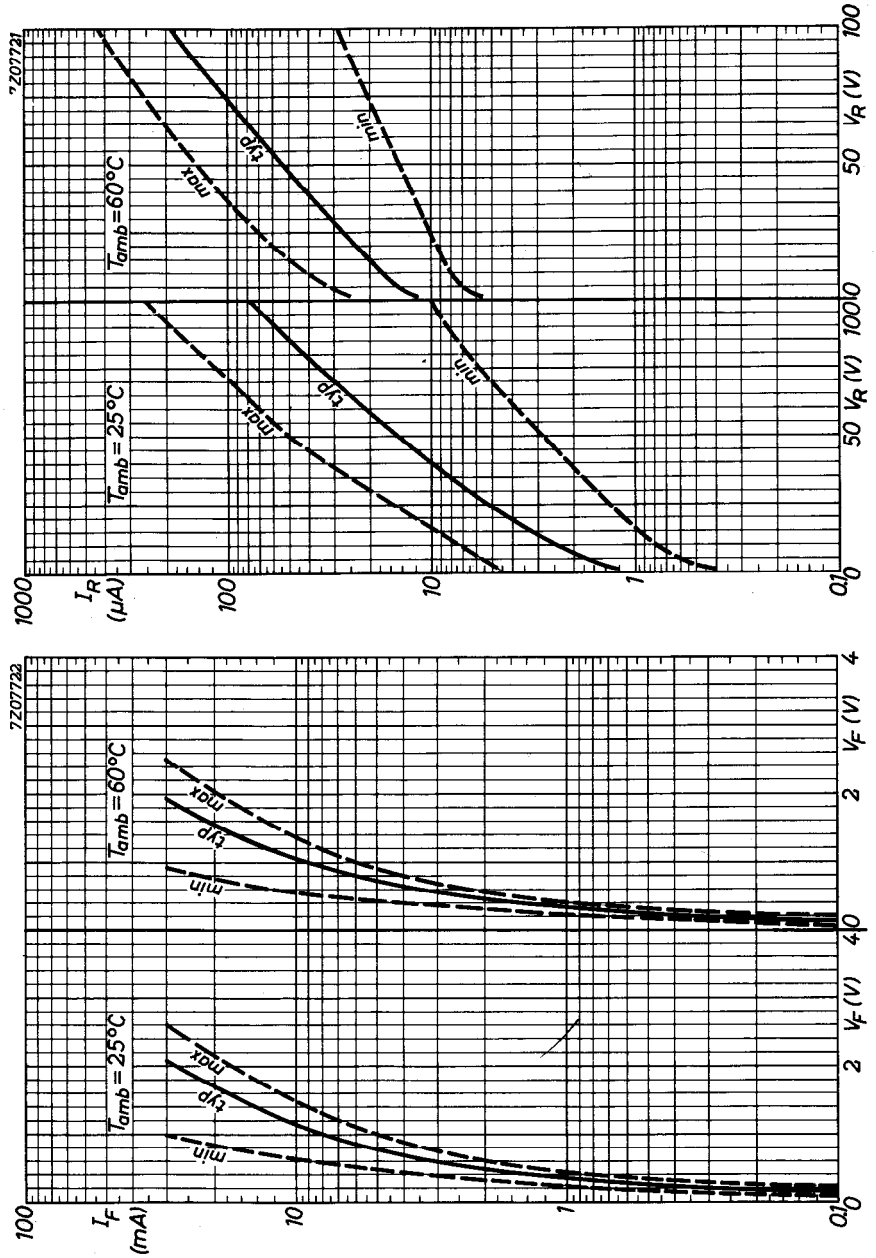
RATINGS (Limiting values according to the Absolute Maximum System as defined in IEC publication 134).

Average reverse voltage (averaged over any 50 ms period)	V_R	max.	90	V
Repetitive peak reverse voltage	V_{RRM}	max.	115	V
Average forward current (averaged over any 50 ms period)	I_F	max.	50	mA
Repetitive peak forward current	I_{FRM}	max.	150	mA
Non repetitive peak forward current (t < 1 s)	I_{FSM}	max.	500	mA
Operating ambient temperature	T_{amb}	−50 to +75		°C

CHARACTERISTICS

		T_{amb} = 25 °C	T_{amb} = 60 °C	
Forward voltage				
I_F = 0.1 mA	V_F	typ. 0.2	typ. 0.13	V
		0.1 to 0.25	0.05 to 0.2	V
I_F = 10 mA	V_F	typ. 1.15	typ. 1.05	V
		0.65 to 1.5	0.55 to 1.4	V
I_F = 30 mA	V_F	typ. 2.05	typ. 1.95	V
		1.0 to 2.6	0.9 to 2.5	V
Reverse current				
V_R = 1.5 V	I_R	typ. 1.2	typ. 12	μA
		0.4 to 4.5	5.5 to 26	μA
V_R = 10 V	I_R	typ. 2.5	typ. 17	μA
		0.8 to 7	8 to 40	μA
V_R = 75 V	I_R	typ. 35	typ. 100	μA
		5.7 to 110	20 to 250	μA
V_R = 100 V	I_R	typ. 75	typ. 190	μA
		10 to 250	30 to 430	μA

FOR NEW DESIGN THE SUCCESSOR TYPE OA95 IS RECOMMENDED


7Z07721
T_{amb}=60°C
T_{amb}=25°C
max
typ
min
I_R (μA)
1000
100
10
1
0,1
V_R (V)
100
50
1000
50
0
7Z07722
I_F (mA)
100
10
1
0,1
V_F (V)
4
2
40
2
0