

VOLTAGE DEPENDENT RESISTORS

silicon carbide rod

QUICK REFERENCE DATA

D.C. voltage	470 to 1300 V
$I_{nom} = 10 \text{ mA}$	950 V
$I_{nom} = 2 \text{ mA}$	300 V
$I_{nom} = 1 \text{ mA}$	0,16 to 0,25
β -values	0,8 W
Maximum dissipation	
Operating temperature range	
zero power	-25 to +125 °C
max. power	0 to + 55 °C



APPLICATION

Voltage stabilization, contact protection, etc.

DESCRIPTION

A rod of silicon carbide with axial tinned copper leads. The rod is coated with tan coloured lacquer. It is not insulated.

MECHANICAL DATA

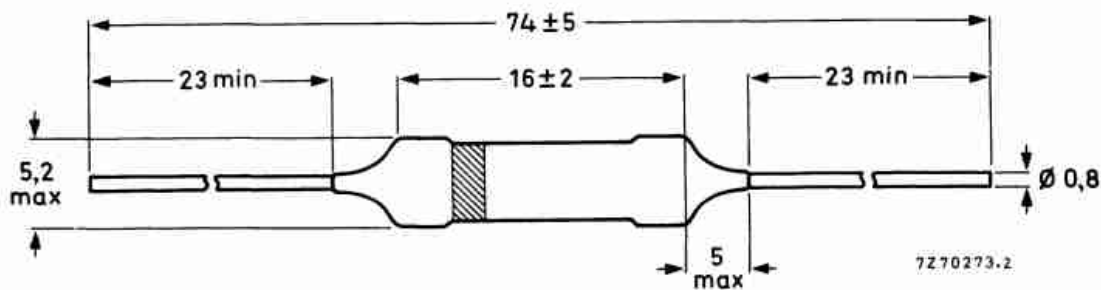


Fig. 1.

Marking

The thermistors are colour coded according to the table and Fig. 1.

Mass

0,9 g approximately

Mounting

In any position by soldering

2322 564 02...
2322 564 90...

Robustness of terminations

Tensile strength 20 N
Bending 10 N
Torsion 3 times

Soldering

Solderability max. 240 °C, max. 4 s
Resistance to heat max. 265 °C, max. 11 s

ELECTRICAL DATA

catalogue number	d.c. current I_{nom} mA	voltage at I_{nom} V*	tolerance on V %	β -value	colour code (see Fig. 1)
2322 564 02582	10	470	± 10	0,20-0,25	green
2322 564 02602	10	560	± 10	0,18-0,23	blue
2322 564 02622	10	680	± 10	0,18-0,23	violet
2322 564 02681	10	1200	± 20	0,17-0,22	grey
2322 564 02682	10	1200	± 10	0,17-0,22	brown
2322 564 90014	10	910	± 10	0,17-0,22	white
2322 564 90015	10	1300	± 10	0,16-0,21	red
2322 564 90016	1	300	± 20	0,18-0,25	yellow

Dissipation factor 20 mW/K
Temperature coefficient at 1 mA
between +25 and +100 °C -0,1%/K
Maximum dissipation 0,8 W
Asymmetry ** max. 2%
Operating temperature range
at zero power -25 to +125 °C
at maximum power 0 to + 55 °C

→ PACKAGING

250 resistors in a cardboard box.

* The voltage is so measured, that the internal heat development is negligible.
** Covered by the specified voltage tolerance.

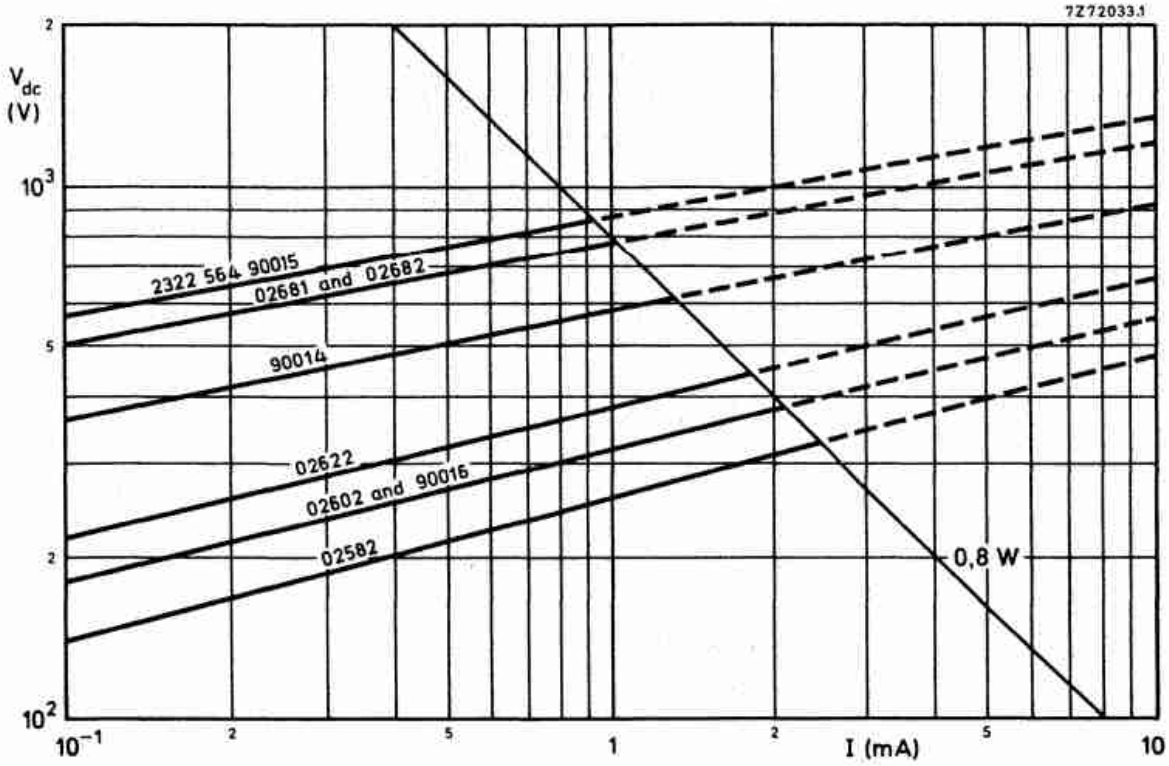


Fig. 2 Voltage/current characteristics.

