

POINT CONTACT DIODE

Germanium diode in all-glass DO-7 envelope intended for general purposes.

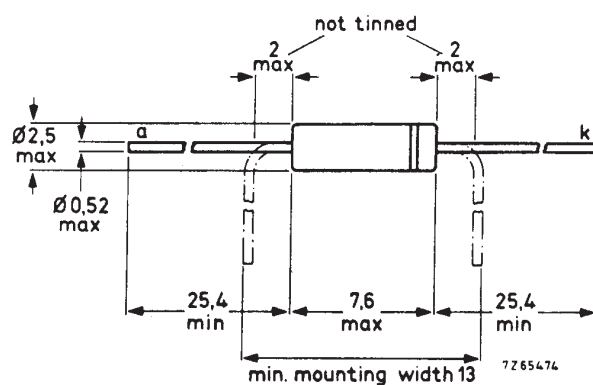
QUICK REFERENCE DATA

Continuous reverse voltage	V_R	max.	90 V
Repetitive peak reverse voltage	V_{RRM}	max.	115 V
Forward current (d.c.)	I_F	max.	50 mA
Repetitive peak forward current	I_{FRM}	max.	150 mA
Operating ambient temperature	T_{amb}	max.	75 °C
Forward voltage at $I_F = 30$ mA	V_F	<	3,3 V

MECHANICAL DATA

Dimensions in mm

Fig. 1 DO-7.



The diodes may be supplied either type-branded or with a broad *red* cathode band.

Available for current production only; not recommended for new designs.

RATINGS

Limiting values in accordance with the Absolute Maximum System (IEC 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)	$I_F(AV)$	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
Storage temperature	T_{stg}	-65 to +75 °C
Ambient temperature	T_{amb}	-55 to +75 °C

THERMAL RESISTANCE

From junction to ambient in free air

$$R_{th j-a} = 0,55 \text{ °C/mW}$$

CHARACTERISTICS

Forward voltage

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

	$T_{amb} = 25 \text{ °C}$	$T_{amb} = 60 \text{ °C}$
V_F	typ. 0,18 0,1 to 0,25	typ. 0,1 V 0,05 to 0,2 V
V_F	typ. 1,2 0,65 to 1,9	typ. 1,05 V 0,55 to 1,8 V
V_F	typ. 2,1 1,0 to 3,3	typ. 1,9 V 0,9 to 3,15 V
I_R	typ. 1,5 0,3 to 7	typ. 15 μA 6 to 45 μA
I_R	typ. 4 0,5 to 11	typ. 20 μA 9 to 60 μA
I_R	typ. 40 5,5 to 180	typ. 115 μA 35 to 260 μA
I_R	typ. 75 10 to 275	typ. 190 μA 60 to 450 μA

Reverse current

$V_R = 1,5 \text{ V}$

$V_R = 10 \text{ V}$

$V_R = 75 \text{ V}$

$V_R = 100 \text{ V}$

