

## POINT CONTACT DIODE

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

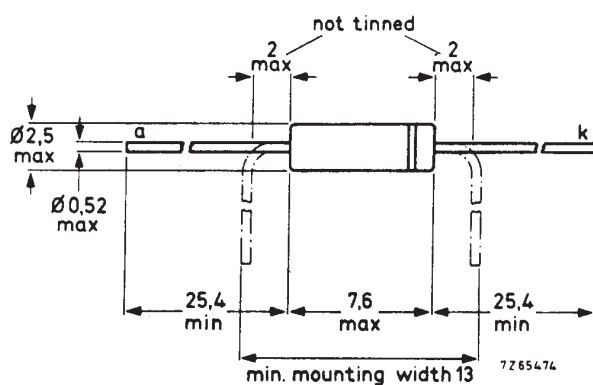
## QUICK REFERENCE DATA

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	$R_{thj-a}$	= 0,55 °C/mW
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**CHARACTERISTICS**

Forward voltage

$I_F = 0,1$  mA

$I_F = 10$  mA

$I_F = 30$  mA

Reverse current

$V_R = 1,5$  V

$V_R = 10$  V

$V_R = 75$  V

$V_R = 100$  V

	$T_{amb} = 25$ °C	$T_{amb} = 60$ °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 $\mu$ A 6 to 45 $\mu$ A
$I_R$	typ. 4 0,5 to 11	typ. 20 $\mu$ A 9 to 60 $\mu$ A
$I_R$	typ. 40 5,5 to 180	typ. 115 $\mu$ A 35 to 260 $\mu$ A
$I_R$	typ. 75 10 to 275	typ. 190 $\mu$ A 60 to 450 $\mu$ A

