

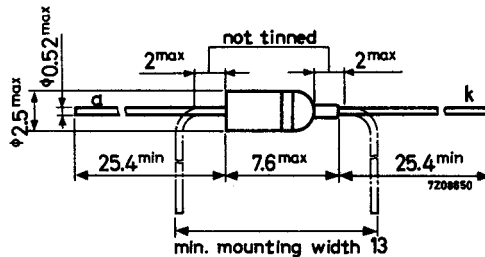
**GERMANIUM DIODE**

Germanium diode in subminiature all glass DO-7 construction for general purposes.

**MECHANICAL DATA**

Dimensions in mm

DO-7



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
Storage temperature	$T_{stg}$		-55 to +75 °C
Operating ambient temperature	$T_{amb}$		-55 to +75 °C

**THERMAL RESISTANCE**

From junction to ambient in free air  $R_{th\ j-a} = 0.4\text{ °C/mW}$

**CHARACTERISTICS**

		$T_{amb} = 25\text{ °C}$	$T_{amb} = 60\text{ °C}$
<b>Forward voltage</b>			
$I_F = 0.1\text{ mA}$	$V_F$	typ. 0.18 0.1 to 0.25	typ. 0.1 V 0.05 to 0.2 V
$I_F = 10\text{ mA}$	$V_F$	typ. 1.2 0.65 to 1.9	typ. 1.05 V 0.55 to 1.8 V
$I_F = 30\text{ mA}$	$V_F$	typ. 2.1 1.0 to 3.3	typ. 1.9 V 0.9 to 3.15 V
<b>Reverse current</b>			
$V_R = 1.5\text{ V}$	$I_R$	typ. 1.5 0.3 to 7	typ. 15 $\mu A$ 6 to 45 $\mu A$
$V_R = 10\text{ V}$	$I_R$	typ. 4 0.5 to 11	typ. 20 $\mu A$ 9 to 60 $\mu A$
$V_R = 75\text{ V}$	$I_R$	typ. 40 5.5 to 180	typ. 115 $\mu A$ 35 to 260 $\mu A$
$V_R = 100\text{ V}$	$I_R$	typ. 75 10 to 275	typ. 190 $\mu A$ 60 to 450 $\mu A$

