

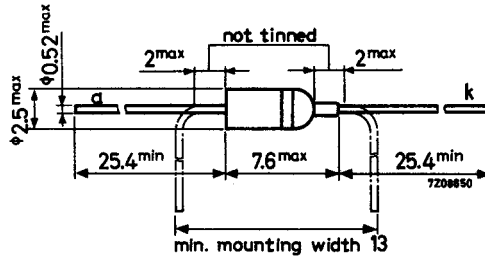
GERMANIUM DIODE

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

		$T_{amb} = 25\text{ °C}$	$T_{amb} = 60\text{ °C}$
Forward voltage			
$I_F = 0.1\text{ mA}$	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
Reverse current			
$V_R = 1.5\text{ V}$	I_R	typ. 1.5 0.3 to 7	typ. 15 μA 6 to 45 μA
$V_R = 10\text{ V}$	I_R	typ. 4 0.5 to 11	typ. 20 μA 9 to 60 μA
$V_R = 75\text{ V}$	I_R	typ. 40 5.5 to 180	typ. 115 μA 35 to 260 μA
$V_R = 100\text{ V}$	I_R	typ. 75 10 to 275	typ. 190 μA 60 to 450 μA

