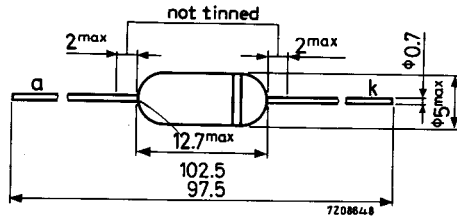


GERMANIUM DIODE

Germanium diode in all glass construction for general purposes.

MECHANICAL DATA

Dimensions in mm



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
Operating ambient temperature	T_{amb}		-50 to +75 °C

CHARACTERISTICS

	$T_{amb} = 25$ °C	$T_{amb} = 60$ °C
<u>Forward voltage</u>		
$I_F = 0.1$ mA	V_F typ. 0.2 0.1 to 0.25	typ. 0.13 V 0.05 to 0.2 V
$I_F = 10$ mA	V_F typ. 1.4 0.65 to 1.9	typ. 1.3 V 0.55 to 1.8 V
$I_F = 30$ mA	V_F typ. 2.45 1.0 to 3.3	typ. 2.3 V 0.9 to 3.15 V
<u>Reverse current</u>		
$V_R = 1.5$ V	I_R typ. 1.5 0.3 to 7	typ. 15 μ A 6 to 45 μ A
$V_R = 10$ V	I_R typ. 4 0.5 to 11	typ. 20 μ A 9 to 60 μ A
$V_R = 75$ V	I_R typ. 40 5.5 to 180	typ. 115 μ A 35 to 260 μ A
$V_R = 100$ V	I_R typ. 75 10 to 275	typ. 190 μ A 60 to 450 μ A

FOR NEW DESIGN THE SUCCESSOR TYPE OA91 IS RECOMMENDED

