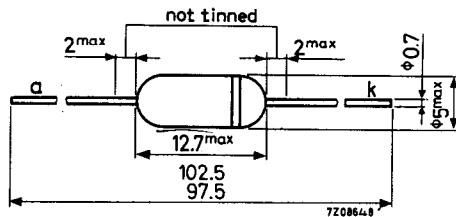


## GERMANIUM DIODE

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. 1.15 0.65 to 1.5	typ. 1.05 V 0.55 to 1.4 V
$I_F = 30$ mA	$V_F$ typ. 2.05 1.0 to 2.6	typ. 1.95 V 0.9 to 2.5 V
<u>Reverse current</u>		
$V_R = 1.5$ V	$I_R$ typ. 1.2 0.4 to 4.5	typ. 12 $\mu$ A 5.5 to 26 $\mu$ A
$V_R = 10$ V	$I_R$ typ. 2.5 0.8 to 7	typ. 17 $\mu$ A 8 to 40 $\mu$ A
$V_R = 75$ V	$I_R$ typ. 35 5.7 to 110	typ. 100 $\mu$ A 20 to 250 $\mu$ A
$V_R = 100$ V	$I_R$ typ. 75 10 to 250	typ. 190 $\mu$ A 30 to 430 $\mu$ A

FOR NEW DESIGN THE SUCCESSOR TYPE OA95 IS RECOMMENDED

