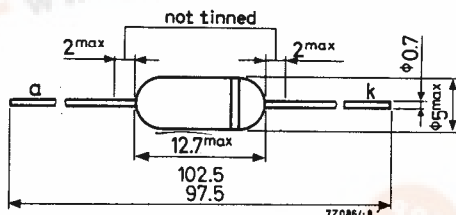


GERMANIUM DIODE

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

		$T_{amb} = 25\text{ °C}$	$T_{amb} = 60\text{ °C}$
Forward voltage			
$I_F = 0.1\text{ mA}$	V_F	typ. 0.2 0.1 to 0.25	typ. 0.13 V 0.05 to 0.2 V
$I_F = 10\text{ mA}$	V_F	typ. 1.15 0.65 to 1.5	typ. 1.05 V 0.55 to 1.4 V
$I_F = 30\text{ mA}$	V_F	typ. 2.05 1.0 to 2.6	typ. 1.95 V 0.9 to 2.5 V
Reverse current			
$V_R = 1.5\text{ V}$	I_R	typ. 1.2 0.4 to 4.5	typ. 12 μA 5.5 to 26 μA
$V_R = 10\text{ V}$	I_R	typ. 2.5 0.8 to 7	typ. 17 μA 8 to 40 μA
$V_R = 75\text{ V}$	I_R	typ. 35 5.7 to 110	typ. 100 μA 20 to 250 μA
$V_R = 100\text{ V}$	I_R	typ. 75 10 to 250	typ. 190 μA 30 to 430 μA

FOR NEW DESIGN THE SUCCESSOR TYPE OA95 IS RECOMMENDED

OA85

