

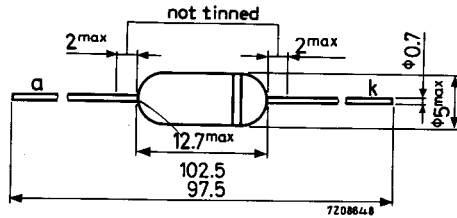
OA81

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

| | $T_{amb} = 25\text{ °C}$ | $T_{amb} = 60\text{ °C}$ |
|------------------------|-------------------------------|---|
| <u>Forward voltage</u> | | |
| $I_F = 0.1\text{ mA}$ | 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. 1.4 0.65 to 1.9 | typ. 1.3 V 0.55 to 1.8 V |
| $I_F = 30\text{ mA}$ | V_F typ. 2.45 1.0 to 3.3 | typ. 2.3 V 0.9 to 3.15 V |
| <u>Reverse current</u> | | |
| $V_R = 1.5\text{ V}$ | 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 |

FOR NEW DESIGN THE SUCCESSOR TYPE OA91 IS RECOMMENDED

OA81

