

GERMANIUM GOLD BONDED DIODE

Germanium gold bonded diode in single ended all glass construction intended for switching applications.

RATINGS (Limiting values)

Continuous reverse voltage	V_R	max.	25	V
Repetitive peak reverse voltage	V_{RRM}	max.	25	V
Non repetitive peak reverse voltage ($t \leq 1$ s)	V_{RSM}	max.	30	V
Average forward current; $T_{amb} = 25$ °C	I_{FAV}	max.	80	mA
$T_{amb} = 75$ °C	I_{FAV}	max.	40	mA
Forward current (d.c.) $T_{amb} = 25$ °C	I_F	max.	140	mA
$T_{amb} = 75$ °C	I_F	max.	50	mA
Repetitive peak forward current	I_{FRM}	max.	250	mA
Non repetitive peak forward current ($t < 1$ s)	I_{FSM}	max.	400	mA
Operating ambient temperature	T_{amb}	max.	75	°C
Storage temperature	T_{stg}		-55 to +75	°C

THERMAL RESISTANCE

From junction to ambient $R_{th\ j-a} = 0.4$ °C/mW

CHARACTERISTICS

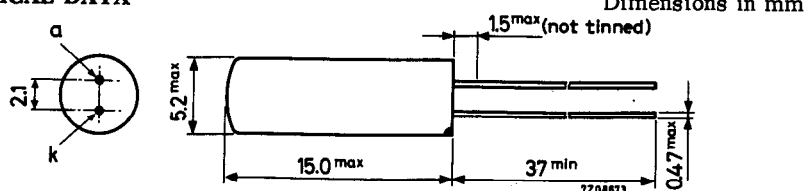
		$T_{amb} = 25$ °C		$T_{amb} = 60$ °C	
<u>Forward voltage</u>	$I_F = 0.1$ mA	V_F	0.12 to 0.26	0.06 to 0.19	V
	$I_F = 10$ mA	V_F	0.30 to 0.48	0.14 to 0.28	V
	$I_F = 50$ mA	V_F	0.40 to 0.78	0.37 to 0.75	V
	$I_F = 250$ mA	V_F	< 1.65		V
<u>Reverse current</u>	$V_R = 1.5$ V	I_R	typ. 0.4	< 20	μA
	$V_R = 10$ V	I_R	typ. 1.5	< 30	μA
	$V_R = 25$ V	I_R	typ. 6.0	< 150	μA

Reverse recovery current when switched

from $I_F = 5$ mA to $V_R = 5$ V; $T_{amb} = 25$ °C
measured at $t_{rr} = 0.5$ μs

I_R typ. 140 μA
< 250 μA

MECHANICAL DATA



The red dot indicates the cathode side

