

Si Zener-diode Chip — TK0006ZDN

1. Scope

- The specification applies to planar Zener diode.
- Extra lower leakage current
- Special thickness for special assembly process.

2. Structure

- Planar type Zener diode.
- Electrode P (anode) : Aluminum. (Gold for option)
- Electrode N (cathode) side : Gold.

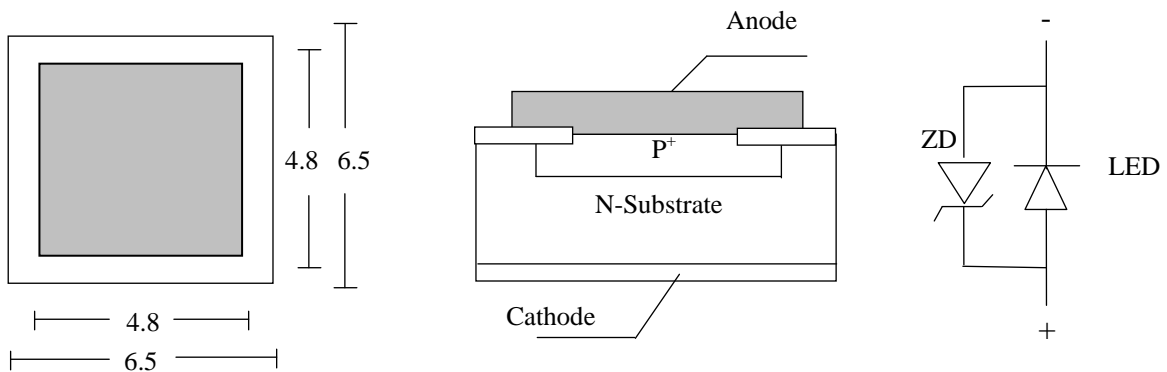
3. Size

- Chip size : $6.5\text{mil} \times 6.5\text{mil} \pm 0.8\text{mil}$ ($0.1651\text{mm} \times 0.1651\text{mm} \pm 0.020\text{mm}$)
- Thickness : $4.0\text{mil} \pm 0.6\text{mil}$ ($0.110\text{mm} \pm 0.015\text{mm}$)
- Pad Size : $4.8\text{mil} \times 4.8\text{mil} \pm 0.4\text{mil}$ ($0.122\text{mm} \times 0.122\text{mm} \pm 0.010\text{mm}$)
- Pattern drawing : per fig. 1

4. Electrical Characteristics

($T_a = +25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit.
Forward Voltage	V_{F1}	$I_F = 10\text{uA}$	0.5		0.8	V
Forward Voltage	V_{F2}	$I_F = 20\text{mA}$	0.7		1.2	V
Forward Leakage current	I_F	$V_F = 0.3\text{V}$			3	nA
Reverse Voltage	V_Z	Rank B: $I_Z = 10\text{mA}$ $I_R @ V_R = 4\text{V}$	5		7	V
		Rank C: $I_Z = 10\text{mA}$	7		9	V
		Rank E: $I_Z = 10\text{mA}$	10		14	V
		Rank F: $I_Z = 10\text{mA}$	13		16	V
Reverse Leakage current	I_R	$V_R = 5\text{V}$			0.5	uA



Unit : mil

fig. 1

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