

1. Scope :

This specification applies to N/P/N silicon zener double diodes chips,
Device NO. SD-01066

2. Structure :

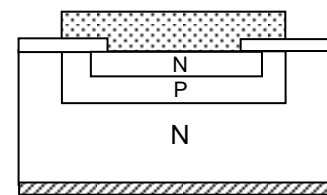
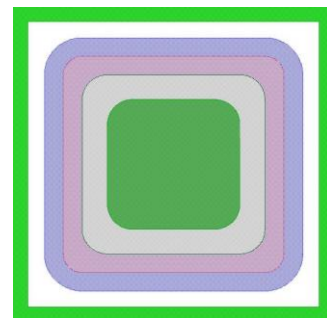
- 2-1. Planar type : N/P/N.
- 2-2. Electrodes :
Top side : Aluminum alloy.
Back side : Gold layer.

3. Size :

- 3-1. ^{※1} Chip size : 10.0 mils x 10.0 mils (0.255 mm x 0.255 mm).
- 3-2. Chip thickness : 4.0 ± 1.0 mils (0.100 ± 0.025 mm).
- 3-3. Bonding pad : 7.5 mils x 7.5 mils (0.190 mm x 0.190 mm).
- 3-4. Pattern drawing : Refer to the attached drawing.
^{※1} Including scribing line. The chip size is about (0.230±0.015)² mm² after dicing.

4. Electrical characteristics (Ta = 25 °C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Leakage Current	Idf	V=4V Ee=0mW/cm ²			100	nA
	Idr	V=4V Ee=0mW/cm ²			100	
Zener Voltage	Vz(forward)	Izf=5mA Ee=0mW/cm ²	5.5		7.0	V
	Vz(reverse)	Izr=5mA Ee=0mW/cm ²	5.3		6.8	



Equivalent Circuit

5. Annotation :

- 5-1. Parallel with one LED
- 5-2. Single pad (one wire bonding applied only)
- 5-3. Double direction Zener diode protection

