

Silicon Flip Zener Diode

PSZ-1044023F-14V

Description

- PSZ-1044023F-14V is silicon planar Zener Diode for Flip Bonding.
- Lateral P/N/P type.

Application

- ESD & Surge Protector for LEDs

Feature

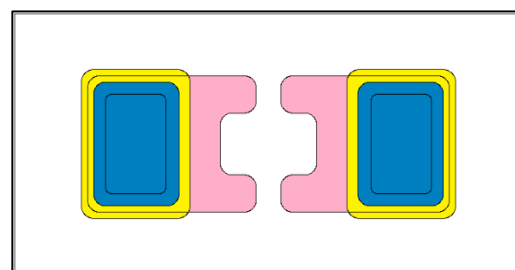
- **Chip Size** : 420(±20)μm X 210(±20)μm
- **Chip Thickness** : 100μm ± 20μm
- **Structure** : Lateral P/N/P
- **Metallization**

> Top

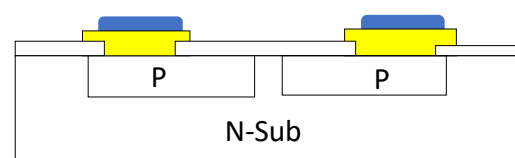
Diffusion Barrier : Gold(Au)
Solder : Gold-Tin(Au/Sn) 3um

> Bottom

: None



[Top View]



[Cross Section]

- **Bonding Pad Size**

Diffusion Barrier : □ 90μm X 120μm
Solder : □ 70μm X 100μm
Distance of Pad to Pad : 130μm

Electrical and Optical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Zener Voltage	$V_{Z(F)}$	$I_F = 5mA$	11	14	16	V
Reverse Zener Voltage	$V_{Z(R)}$	$I_Z = 5mA$	11	14	16	V
Forward Current	I_F	$V_F = 9V$			0.1	μA
Reverse Current	I_R	$V_R = 9V$			0.1	μA

Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit
Power dissipation	P_d	50	mW
Junction Temperature	T_j	150	°C