

Technical Data Data Sheet N2075, Rev. -



# SFC5V650 Thru SFC1250 Flip Chip Zener Diode



### Features

- Zener Voltage: 5.6V 6.2V 6.8V 10V 12V
- Case: WLCSP
- Space saving, low profile
- Very small dimensions:1.0mm\*0.6mm\*0.28mm
- 20mA forward current
- 500mW Power dissipation

### **Applications**

- Voltage Regulation
- Voltage Reference
- Protection and Clamping

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## **Maximum Ratings:**

Characteristics	Symbol	Condition	Max.	Units
Nominal Power Dissipation	PD	Derate above 25℃	500	mW
Forward Voltage	VF	@I <sub>F</sub> =10mA, Pulse, T <sub>J</sub> =25℃	0.9	V
Operating Temperature Range	TJ	-	-55 to +150	°C
Storage Temperature Range	T <sub>stg</sub>	-	-55 to +150	°C

## Electrical Characteristics @ T<sub>J</sub>=25 °C:

• K

Device Nor	Zener voltage		Zener Impedence			Leakage Current	
	No. WZ @		Max.	Max.		Max. I <sub>R</sub> @ V <sub>R</sub>	
	Nom. VZ ①	@ I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	@ І <sub>ZK</sub>		
	Volts	mA	Ω	Ω	mA	uA	Volts
SFC5V650	5.6	20	11	1600	0.25	5	3
SFC6V250	6.2	20	7	1000	0.25	5	4
SFC6V850	6.8	20	5	750	0.25	3	5
SFC1050	10	20	17	600	0.25	3	8
SFC1250	12	20	30	600	0.25	1	9.1

Note: (1)Vz Tolerance is  $\pm 5\%$ 

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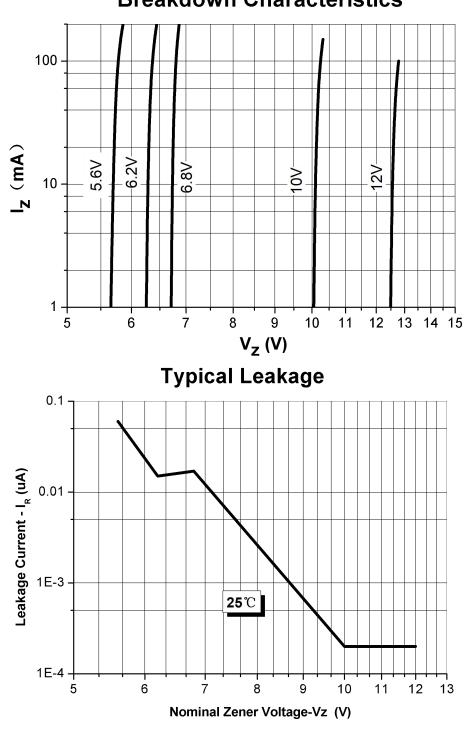


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## **Ratings and Characteristics Curves**



**Breakdown Characteristics** 

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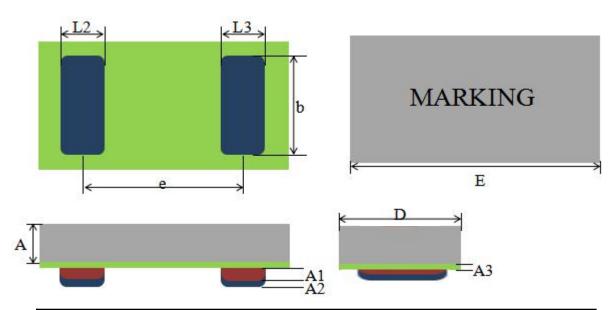


## **Ordering Information:**

Device	Package	Plating	Shipping
SFC5V650-SFC1250	WLCSP	Cu+Sn	6000pcs/reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

## Mechanical Dimensions (in millimeters:WLCSP)



ltem	Material	mechanical size(mm)			
	Waterial	min	typ	max	
Α	Si	0.240	0.260	0.280	
A1	Cu		0.008		
A2	Sn		0.003		
A3	PI	0.003	0.004	0.005	
b			0.500		
L2		0.200	0.250	0.300	
L3		0.200	0.250	0.300	
е			0.650		
D		0.590		0.63	
E		0.990		1.03	

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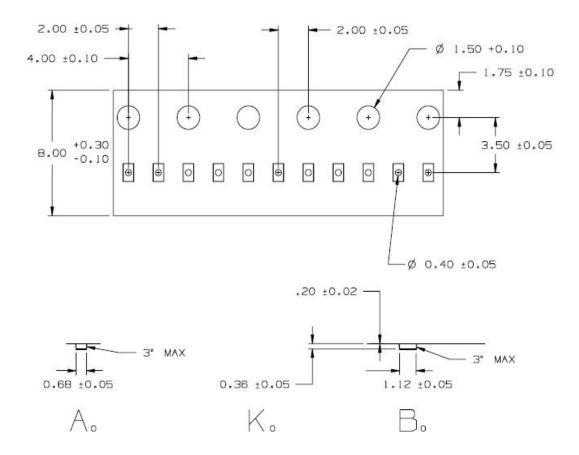


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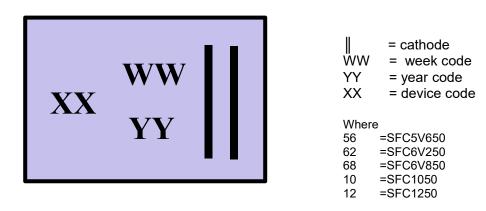
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## **Carrier Tape and Reel Specification(in millimeters)**



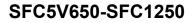
## **Marking Diagram**



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