

Dual zener diodes

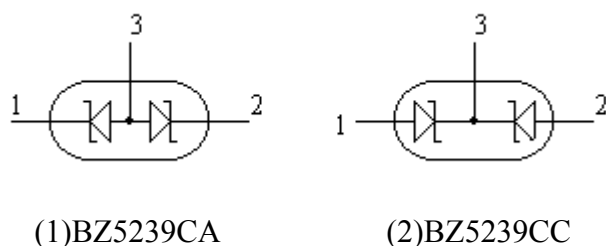
BZ5239CAN3/BZ5239CCN3

Description

Two ZD5239 diodes are encapsulated in a SOT-23 small plastic SMD package. Two different pinnings are available.

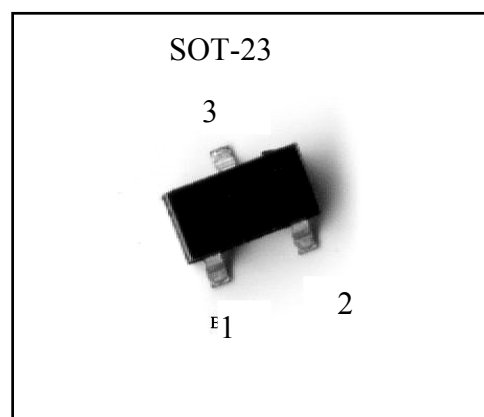
Pinning

Pin	Description	
	BZ5239CA	BZ5239CC
1	K1	A1
2	K2	A2
3	A1,A2	K1,K2



Diode configuration and symbol

Outline



Marking:

Type	Marking Code
BZ5239CAN3	29A
BZ5239CCN3	29C

Thermal Characteristics

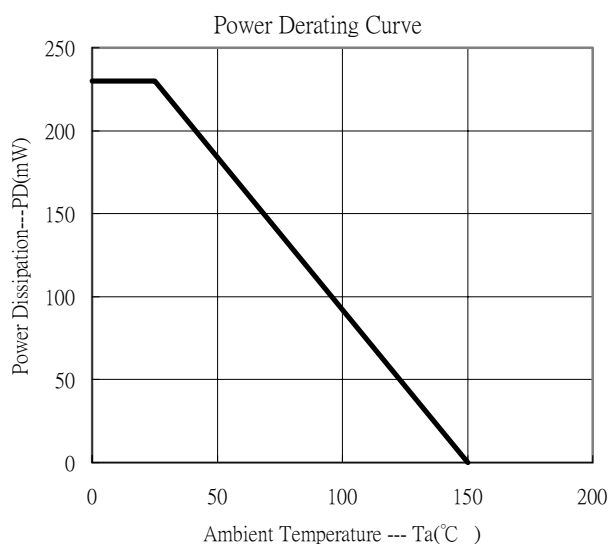
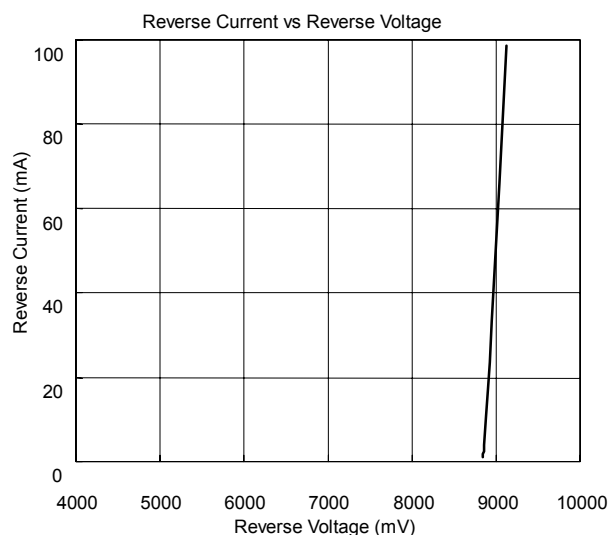
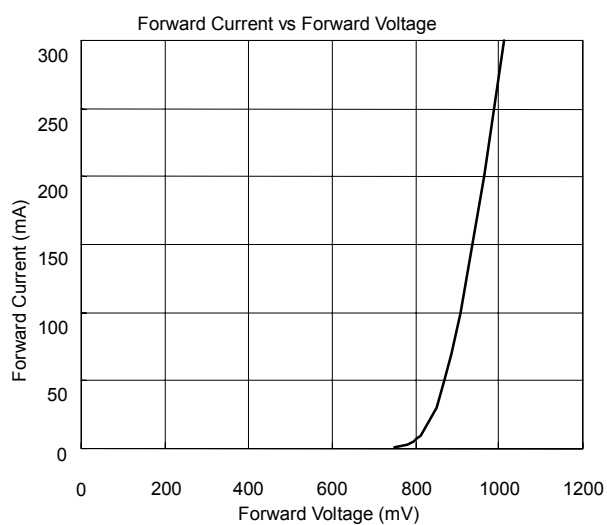
- Maximum Temperatures
 - Storage Temperature T_{stg} -55~+150 °C
 - Junction Temperature T_j +150 °C
- Maximum Power Dissipation
 - Total Power Dissipation ($T_a=25^{\circ}\text{C}$) P_{tot} 230 mW
- Thermal Resistance, Junction to Ambient θ_{JA} 543 °C/W



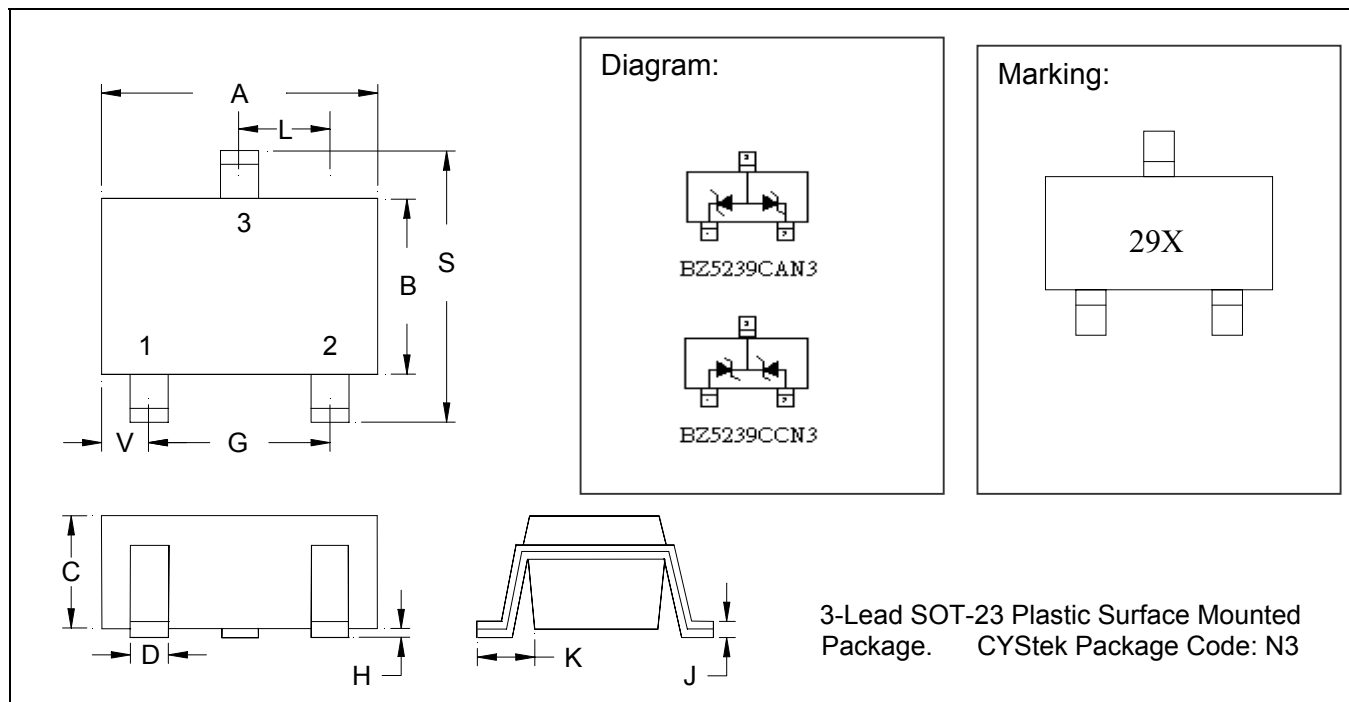
Electrical Characteristic (VF=0.9V Max @IF=10mA.)

Test Current IZT(mA)	Zener Voltage VZ(V)	ZZK IZ=0.25mA (Ω, max)	ZZT IZ=IZT (Ω, max)	Maximum Reverse Current	
				IR(μA)	VR(V)
20	9.1 ±5%	600	10	3.0	7.0

Characteristic Curves



SOT-23 Dimension



- BZ5239CAN3: Common Anode. (Marking Code : 29A)
- BZ5239CCN3: Common Cathode. (Marking Code : 29C)

*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1102	0.1204	2.80	3.04	J	0.0034	0.0070	0.85	0.177
B	0.0472	0.0630	1.20	1.60	K	0.0128	0.0266	0.32	0.67
C	0.0335	0.0512	0.89	1.30	L	0.0335	0.0453	0.85	1.15
D	0.0118	0.0197	0.30	0.50	S	0.0830	0.1083	2.10	2.75
G	0.0669	0.0910	1.70	2.30	V	0.0098	0.0256	0.25	0.65
H	0.0005	0.0040	0.013	0.10					

Notes: 1.Controlling dimension: millimeters.

2.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.

3.If there is any question with packing specification or packing method, please contact your local CYStek sales office.

Material:

- Lead: 42 Alloy; solder plating
- Mold Compound: Epoxy resin family, flammability solid burning class: UL94V-0

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