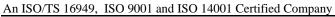


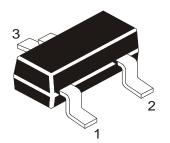
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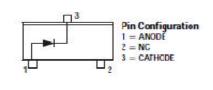






SURFACE MOUNT SILICON PLANAR ZENER DIODE





CZW39

SOT-23 Formed SMD Package

ABSOLUTE MAXIMUM RATINGS (per diode) (T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Working Voltage	V_Z	39	V
Working Voltage Tolerance		+/- 5	%
Power Dissipation	P _{tot}	600	mW
Operating Junction and Storage Temperature Range	T_{j}, T_{stg}	- 55 to +150	°C

Thermal Resistance

Junction to Ambient #	R _{th (j-a)}	430	K/W
Junction to Ambient ##	R _{th (j-a)}	500	K/W

ELECTRICAL CHARACTERISTICS(T_a=25 °C unless otherwise specified)

ELECTRICA	AL CHARACTERISTIC	V _F < 1.5V a	t 200mA								
Types	Working Volt	age	Differential	Reverse (Reverse Current		Current Temp		Differential		MARKING
	V _z (V)	(mA)	Resistance rdiff (W)	I _R	V _R	Coeff of Zener Voltage	Resist rdiff at I	(W) zk			
	(min) (max)	(I _{ZT})	(max)	mA	(V)	(TYP)	(max)	(I _{zK}) (mA)			
CZW39	37.0 - 41.0	6.5	60	5.0	29.7	0.09	1000	0.25	39		

#Device mounted on a cermic alumna. ## Device mounted on an FR5 printed circuit board. \$Pulse test 20ms =tp=50ms



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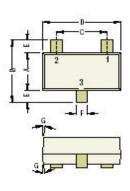


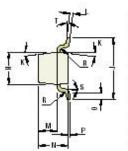




SOT-23 PACKAGE DRAWING AND DIMENSION

SOT-23 SMD Plastic Package

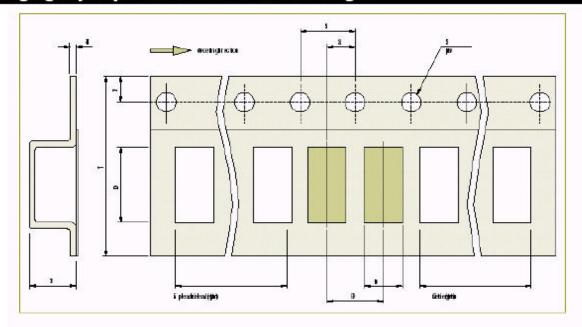




DIM	Min	Max
A	1.20	1.40
В	2.10	2.64
C	1.85	1.95
D	2.80	3.04
E	0.54	0.67
F	0.30	0.50
G	3	P
Н	-8	1.30
J	2.10	2.64

DIM	Min	Max
K	7	79
L	0.08	0.20
М	0.58	0.62
N	0.70	1.02
0	0.21	-
P	0.02	0.15
R	_	0.08
S	2°	8°
T	2°	10°

Packaging Tape Specifications for SMD Packages



SMD Tape Specifications (8-12 mm)

Device	D1	D2	D3	Ti	12	13	T4	SI	S2	S3
						Nax	Nax			Dia
m	nn	mn mn mn	mm	nm	nn	nn	m	mm	mm	
SOT-23	3.2±0.1	2.8±0.1	4.0±0.1	1.0±0.2	1.75±0.1	1.90	0.35	4.0±0.1	2.0±0.1	1,5±0.1

Packaging	Specificatio	ns							
The second secon	T & R: Tape and Reet Bulk: I		Tube and Carto						
Package / Case Type	Packaging Type	Std. Packing		InnerCarton			Outer Carton	Carton	
		Oty	Qty	Size LxWx I	Gross Weight	Qty	Size Lx Wx H	Gross Weight	
				(cm)	(Kg)		(cm)	(Kg)	
SOT-23	T&R	3,000	15K	19x19x8	0.6	51K	23 x 13 x 23	2.2	
	T&R	3,000	15K	19x19x8	0.6	408K	48 x 48 x 51	20.2	
	T&R	10,000	50K	35.5 x 35.5 x 8.9	2.4	350K	48 x 48 x 51	19.2	

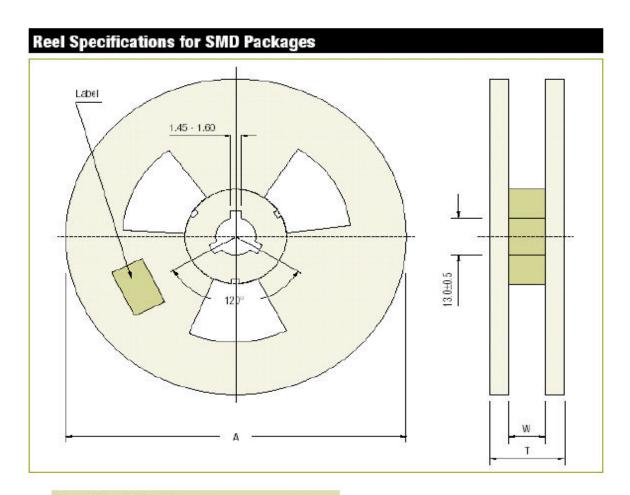
CZW39 Rev0_05062014E



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Reel Specifications

Package	Tape	Red Dia.	Devices	Inside	Reel
	Width		per Reel	Thickness	Thickness
		A - Max	and M0Q	W	T - Max
90T-23	- 1	180	3,000	8.4±2	14.4
	1	330	10,000	8.4±2	14.4



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Customer Notes

Component Disposal Instructions

- CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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