DIVA Labs.
鈺緯科技開發股份有限公司
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TEL:886-2-2226-8631 FAX:886-2-2226-2423

APPROVAL SHEET

FILE NO: Z0054
USED IN MODEL: ALL

DIVA P/N	3 D Z 5 2 3 2 0 0 1 Y 3 D Z 5 2 3 4 0 0 1 Y	APPROVAL	V
DESCRIPTION	ZENER (5.6V,CZRW5232B-HF,COMPCHIP) ZENER (6.2V,CZRW5234B-HF,COMPCHIP)	COND. APPROVAL	
		REJECTION	

Manufacturer	COMPCHIP	Agent Name	N/A
Manufacturer's P/N	CZRW5232B-HF/ CZRW5234B-HF	Agent P/N	N/A

ENGINEERING COMMENTS / REVISION	Signature
1) REV : C	99.09.01
*電子檔承認發行	
2) 版次：E, issued date: 2016/07/14	
*原廠無鉛無鹵料號	
**電子檔承認發行	

Prepared	Safety	Engineer			Approved	Approval Stamp
李 105.7.15 蕙君		戴 105.7.15 聖育			盧 105.7.15 俊宇	開發部 2016.7.15 發行 鈺緯科技開發股份有限公司

發行單位	安 規	品 管	採 購	廠 商	開 發	
承 認 圖		1		1	1	
樣 品		0		0	0	
簽 收						

※ 承認時要確認事項⇨舊圖面、本圖面、樣品、有關零件等之性能、形狀尺寸、影響及其他。

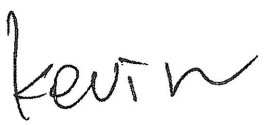
Specification for Approval

Customer	鈺緯科技開發股份有限公司
Product Type	SMD Zener Diode
Description	SOD-123, Pd=0.35W VZ=6.2V IZT=20mA, RoHS
Customer P/N	CZRW5234B-HF
Comchip P/N	CZRW5234B-HF
Issue date	2016/07/14

Customer's Approval



(Please return one copy with authorized signature or chap)

Approved	QA
	

Comchip
SMD Diodes Specialist

Comchip Technology Co., Ltd.
No. 586,Jianguo Rd.,Yingge Dist.,New Taipei City
23943,Taiwan
Tel: 886-2-86776675 Fax: 886-2-86776672

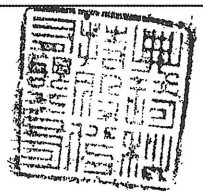
Specification for Approval

Customer	鈺緯科技開發股份有限公司
Product Type	SMD Zener Diode
Description	SOD-123, Pd=0.35W VZ=5.6V IZT=20mA, RoHS
Customer P/N	CZRW5232B-HF
Comchip P/N	CZRW5232B-HF
Issue date	2016/07/14

Customer's Approval



(Please return one copy with authorized signature or chap)

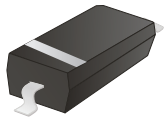
Approved	QA
	kevin

Comchip
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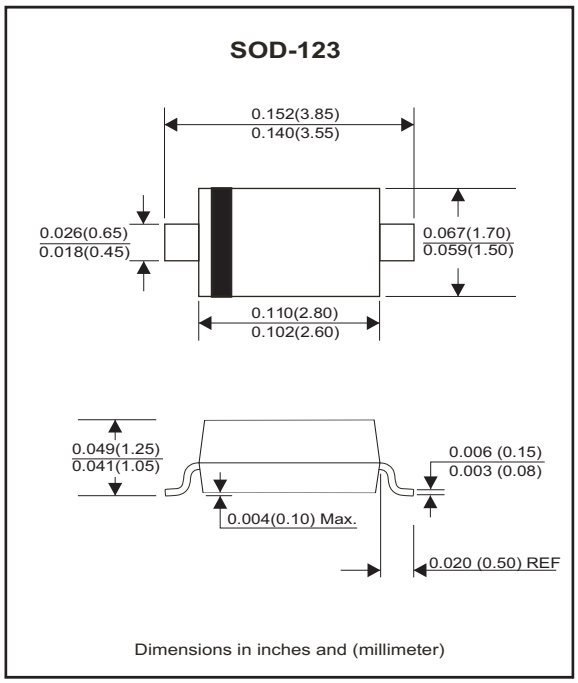
CZRW5223B-HF Thru CZRW5256B-HF

Voltage: 2.7 to 30 Volts
Power: 350 mWatts
RoHS Device
Halogen Free



Features

- For surface mounted applications.
- General purpose,medium current
- Ideally suited for automated assembly processes.



Mechanical data

- Case: SOD-123 , Molded plastic.
- Terminals: Solder Plated,solderable per MIL-STD-750,method 2026.
- Polarity: Cathode band.
- Weight: 0.01 grams(approx.).

Circuit Diagram



Maximum Ratings (@Ta=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Forward Voltage (Note 2) @ I_F=10mA	V_F	0.9	V
Power Dissipation (Note 1)	P_D	350	mW
Thermal Resistance,Junction to Ambient Air	$R_{\theta JA}$	357	°C/W
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +150	°C

Notes: 1. Device mounted on ceramic PCB;7.6mm x 9.4mm x 0.87mm with pad areas 25mm^2.
2. Tested with pulses,Tp≤1.0ms

Electrical Characteristics(Ta = 25°C)

Part Number	Zener Voltage			Operating resistance		Rising operating resistance		Reverse current		Marking Code
	V_Z(V)@I_{ZT}			Z_{ZT}(Ohm)		Z_{ZK}(Ohm)		I_R(uA)		
	Min	Nom	Max	Max	I_{ZT}(mA)	Max	I_{ZK}(mA)	Max	V_R(V)	
CZRW5223B-HF	2.57	2.7	2.84	30	20	1300	0.25	75	1.0	.C3
CZRW5225B-HF	2.85	3.0	3.15	30	20	1600	0.25	50	1.0	.C5
CZRW5226B-HF	3.14	3.3	3.47	28	20	1600	0.25	25	1.0	.G1
CZRW5227B-HF	3.42	3.6	3.78	24	20	1700	0.25	15	1.0	.G2
CZRW5228B-HF	3.71	3.9	4.10	23	20	1900	0.25	10	1.0	.G3
CZRW5229B-HF	4.09	4.3	4.52	22	20	2000	0.25	5	1.0	.G4
CZRW5230B-HF	4.47	4.7	4.94	19	20	1900	0.25	5	2.0	.G5
CZRW5231B-HF	4.85	5.1	5.36	17	20	1600	0.25	5	2.0	.E1
CZRW5232B-HF	5.32	5.6	5.88	11	20	1600	0.25	5	3.0	.E2
CZRW5233B-HF	5.70	6.0	6.30	7	20	1600	0.25	5	3.5	.E3
CZRW5234B-HF	5.89	6.2	6.51	7	20	1000	0.25	5	4.0	.E4
CZRW5235B-HF	6.46	6.8	7.14	5	20	750	0.25	3	5.0	.E5
CZRW5236B-HF	7.13	7.5	7.88	6	20	500	0.25	3	6.0	.F1
CZRW5237B-HF	7.79	8.2	8.61	8	20	500	0.25	3	6.5	.F2
CZRW5238B-HF	8.27	8.7	9.14	8	20	600	0.25	3	6.5	.F3
CZRW5239B-HF	8.65	9.1	9.56	10	20	600	0.25	3	7.0	.F4
CZRW5240B-HF	9.50	10	10.50	17	20	600	0.25	3	8.0	.F5
CZRW5241B-HF	10.45	11	11.55	22	20	600	0.25	2	8.4	.H1
CZRW5242B-HF	11.40	12	12.60	30	20	600	0.25	1	9.1	.H2
CZRW5243B-HF	12.35	13	13.65	13	9.5	600	0.25	0.5	9.9	.H3
CZRW5244B-HF	13.30	14	14.70	15	9.0	600	0.25	0.1	10	.H4
CZRW5245B-HF	14.25	15	15.75	16	8.5	600	0.25	0.1	11	.H5
CZRW5246B-HF	15.20	16	16.80	17	7.8	600	0.25	0.1	12	.J1
CZRW5248B-HF	17.10	18	18.90	21	7.0	600	0.25	0.1	14	.J3
CZRW5250B-HF	19.00	20	21.00	25	6.2	600	0.25	0.1	15	.J5
CZRW5251B-HF	20.90	22	23.10	29	5.6	600	0.25	0.1	17	.K1
CZRW5252B-HF	22.80	24	25.20	33	5.2	600	0.25	0.1	18	.K2
CZRW5253B-HF	23.75	25	26.25	35	5.0	600	0.25	0.1	19	.K3
CZRW5254B-HF	25.65	27	28.35	41	5.0	600	0.25	0.1	21	.K4
CZRW5255B-HF	26.60	28	29.40	44	4.5	600	0.25	0.1	21	.K5
CZRW5256B-HF	28.50	30	31.50	49	4.2	600	0.25	0.1	23	.M1

RATING AND CHARACTERISTIC CURVES (CZRW5223B-HF Thru CZRW5256B-HF)

Fig.1 - Power Derating Curve

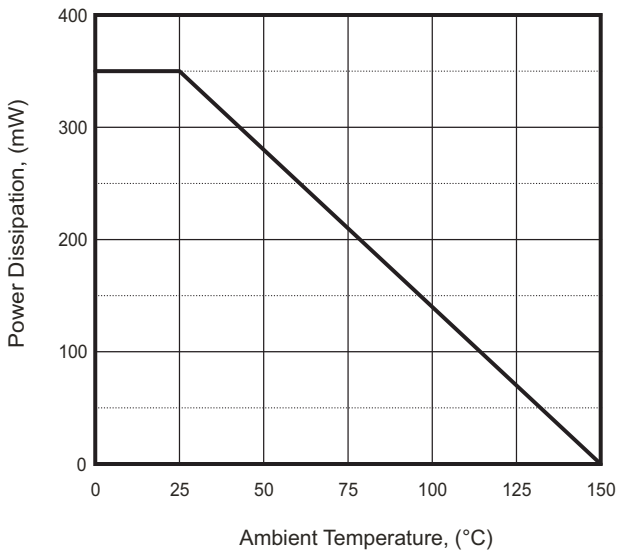


Fig.2 - Forward Characteristics

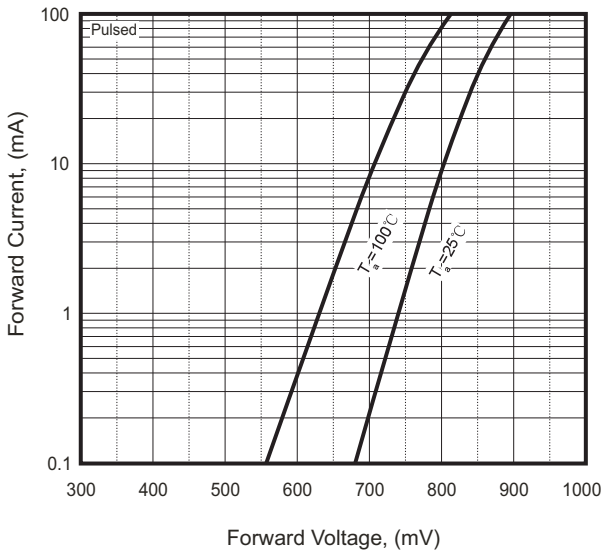


Fig.3 - Reverse Characteristics

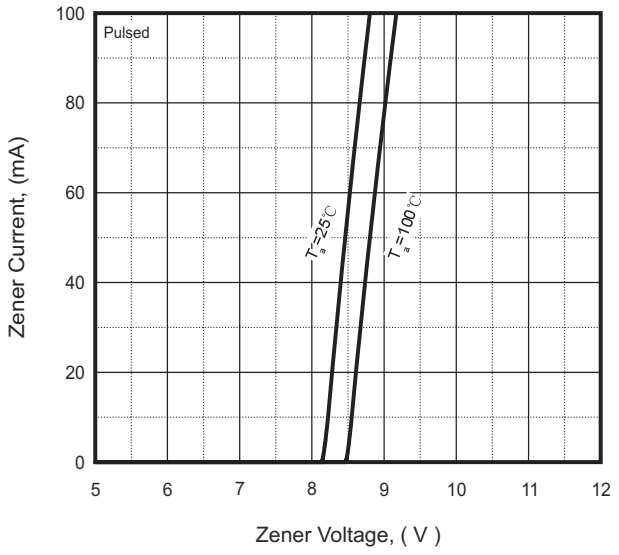
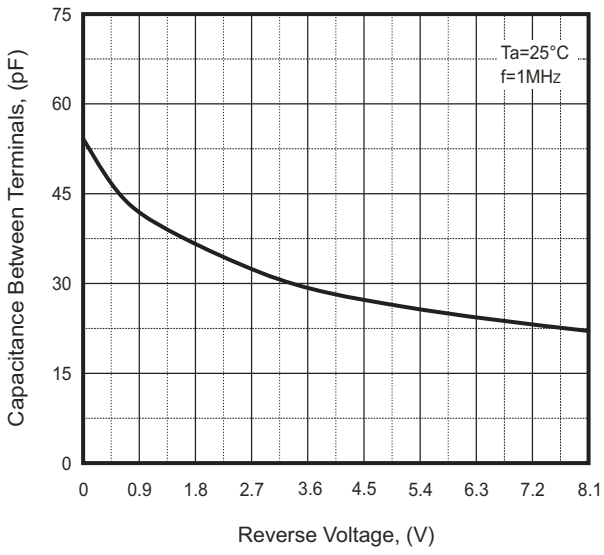
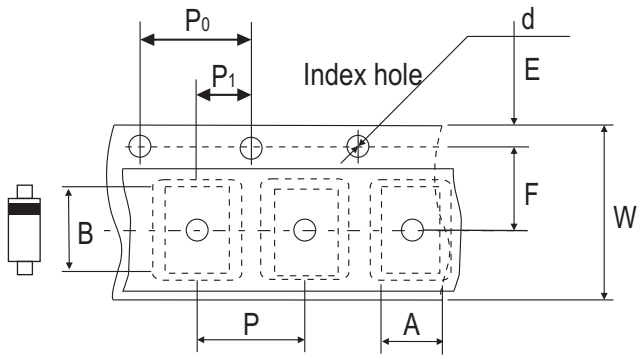
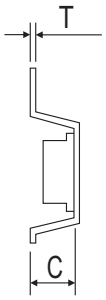


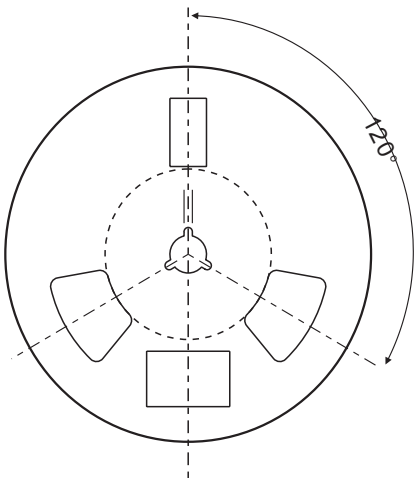
Fig.4 - Capacitance Characteristics

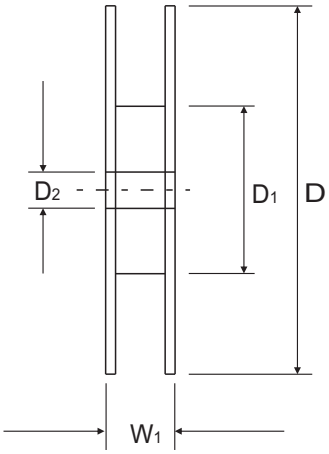


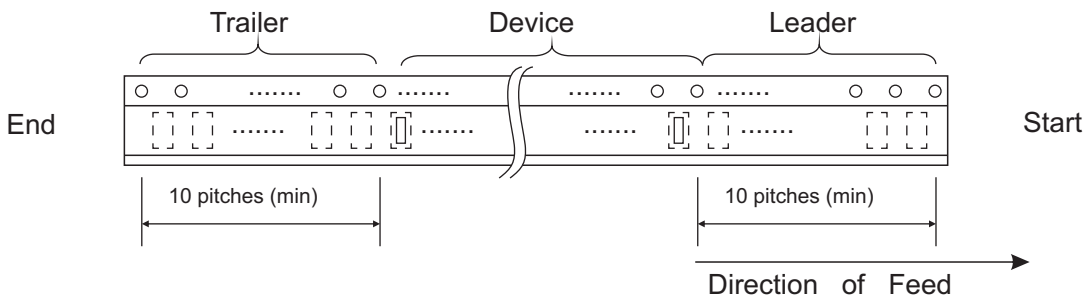
Reel Taping Specification











	SYMBOL	A	B	C	d	D	D1	D2
SOD-123	(mm)	1.85 ± 0.10	3.94 ± 0.10	1.57 ± 0.10	1.55 + 0.10	178 ± 1.00	54.40 ± 0.40	13.0 ± 0.20
	(inch)	0.073 ± 0.004	0.155 ± 0.004	0.062 ± 0.004	0.061 + 0.004	7.008 ± 0.039	2.142 ± 0.016	0.512 ± 0.008

	SYMBOL	E	F	P	P0	P1	W	W1
SOD-123	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00+0.30/-0.10	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138± 0.002	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	0.315+0.012/-0.004	0.374 ± 0.039

Marking Code

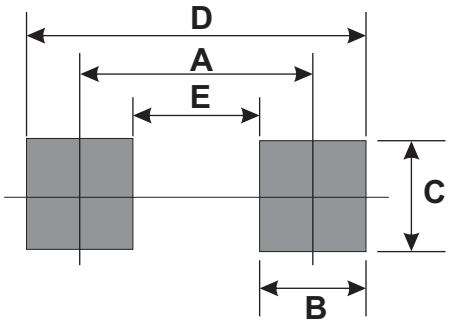
Part Number	Marking Code
CZRW5223B ~ 5256B-HF	.XX



Product type marking code (see page.2)

Suggested PAD Layout

SIZE	SOD-123	
	(mm)	(inch)
A	3.35	0.132
B	0.80	0.031
C	1.00	0.039
D	4.15	0.163
E	2.55	0.100



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
SOD-123	3,000	7