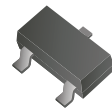


CZRV3-55C2V4-G Thru. CZRV3-55C39-G

Voltage: 2.4 to 39 Volts
Power: 200 mWatts
RoHS Device


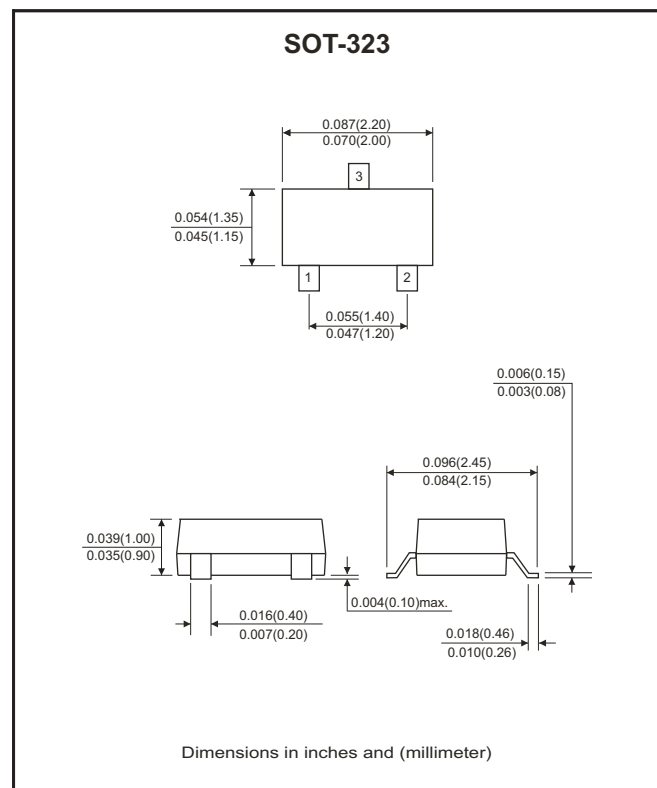
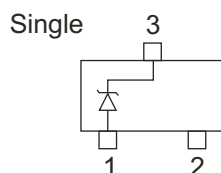
Features

- Planar die construction.
- 200mW power dissipation.
- Ideally suited for automated assembly process.
- Ultra small surface mount package.

Mechanical data

- Case: SOT-323, Molded plastic
- Terminals: Solderable per MIL-STD-202G, method 208
- Polarity: See diagram below
- Mounting position: Any

Circuit Diagram



Maximum Ratings (TA=25°C, unless otherwise specified)

Parameter	Conditions	Symbol	Value	Unit
Forward voltage drop (Note 2)	I _F =10mA	V _F	0.9	V
Power dissipation (Note 1)		P _D	200	mW
Thermal resistance	Junction to ambient air	R _{θJA}	625	°C/W
Operating junction temperature range		T _J	-55 to +150	°C
Storage temperature range		T _{STG}	-55 to +150	°C

Note:

1. Valid provided that device terminals are kept at ambient temperature .
2. Tested with pulses, 300μS pulse width, 2% duty cycle.

Electrical Characteristics (at Ta=25°C, unless otherwise specified)

Part No.	Nominal Zener Voltage			Max. Zener Impedance f = 1kHz				Max. Reverse Leakage Current		Temperature Coefficient of Zener Voltage @IzT=5mA (mV/°C)		Marking Code
	Vz @ IzT (V)			ZzT @ IzT		Zzk @ Izk		Ir @ VR				
	Nom.	Min.	Max.	ohm	mA	ohm	mA	µA	V	Min.	Max.	
CZRV3-55C2V4-G	2.4	2.20	2.60	100	5.0	600	1.00	50.0	1.0	-3.5	0.0	KRB
CZRV3-55C2V7-G	2.7	2.50	2.90	100	5.0	600	1.00	20.0	1.0	-3.5	0.0	KRC
CZRV3-55C3V0-G	3.0	2.80	3.20	95	5.0	600	1.00	20.0	1.0	-3.5	0.0	KRD
CZRV3-55C3V3-G	3.3	3.10	3.50	95	5.0	600	1.00	5.0	1.0	-3.5	0.0	KRE
CZRV3-55C3V6-G	3.6	3.40	3.80	90	5.0	600	1.00	5.0	1.0	-3.5	0.0	KRF
CZRV3-55C3V9-G	3.9	3.70	4.10	90	5.0	600	1.00	3.0	1.0	-3.5	0.0	KRG
CZRV3-55C4V3-G	4.3	4.00	4.60	90	5.0	600	1.00	3.0	1.0	-3.5	0.0	KRH
CZRV3-55C4V7-G	4.7	4.40	5.00	80	5.0	600	1.00	3.0	2.0	-3.5	0.2	KR1
CZRV3-55C5V1-G	5.1	4.80	5.40	60	5.0	500	1.00	2.0	2.0	-2.7	1.2	KR2
CZRV3-55C5V6-G	5.6	5.20	6.00	40	5.0	480	1.00	1.0	2.0	-2.0	2.5	KR3
CZRV3-55C6V2-G	6.2	5.80	6.60	10	5.0	400	1.00	3.0	4.0	0.4	3.7	KR4
CZRV3-55C6V8-G	6.8	6.40	7.20	15	5.0	150	1.00	2.0	4.0	1.2	4.5	KR5
CZRV3-55C7V5-G	7.5	7.00	7.90	15	5.0	80	1.00	1.0	5.0	2.5	5.3	KR6
CZRV3-55C8V2-G	8.2	7.70	8.70	15	5.0	80	1.00	0.7	5.0	3.2	6.2	KR7
CZRV3-55C9V1-G	9.1	8.50	9.60	15	5.0	80	1.00	0.5	6.0	3.8	7.0	KR8
CZRV3-55C10-G	10.0	9.40	10.60	20	5.0	100	1.00	0.2	7.0	4.5	8.0	KR9
CZRV3-55C11-G	11.0	10.40	11.60	20	5.0	150	1.00	0.1	8.0	5.4	9.0	KP1
CZRV3-55C12-G	12.0	11.40	12.70	25	5.0	150	1.00	0.1	8.0	6.0	10.0	KP2
CZRV3-55C13-G	13.0	12.40	14.10	30	5.0	150	1.00	0.1	8.0	7.0	11.0	KP3
CZRV3-55C15-G	15.0	13.80	15.60	30	5.0	170	1.00	0.1	10.5	9.2	13.0	KP4
CZRV3-55C16-G	16.0	15.30	17.10	40	5.0	200	1.00	0.1	11.2	10.4	14.0	KP5
CZRV3-55C18-G	18.0	16.80	19.10	45	5.0	200	1.00	0.1	12.6	12.4	16.0	KP6
CZRV3-55C20-G	20.0	18.80	21.20	55	5.0	225	1.00	0.1	14.0	14.4	18.0	KP7
CZRV3-55C22-G	22.0	20.80	23.30	55	5.0	225	1.00	0.1	15.4	16.4	20.0	KP8
CZRV3-55C24-G	24.0	22.80	25.60	70	5.0	250	1.00	0.1	16.8	18.4	22.0	KP9
CZRV3-55C27-G	27.0	25.10	28.90	80	2.0	250	0.50	0.1	18.9	21.4	25.3	KPA
CZRV3-55C30-G	30.0	28.00	32.00	80	2.0	300	0.50	0.1	21.0	24.4	29.4	KPB
CZRV3-55C33-G	33.0	31.00	35.00	80	2.0	300	0.50	0.1	23.1	27.4	33.4	KPC
CZRV3-55C36-G	36.0	34.00	38.00	90	2.0	325	0.50	0.1	25.2	30.4	37.4	KPD
CZRV3-55C39-G	39.0	37.00	41.00	130	2.0	350	0.50	0.1	27.3	33.4	41.2	KPE

Company reserves the right to improve product design , functions and reliability without notice.

REV:B

Ratings and Characteristic Curves(CZRV3-55C2V4-G Thru. CZRV3-55C39-G)

Fig.1 - Zener Characteristics (V_z Up to 10V)

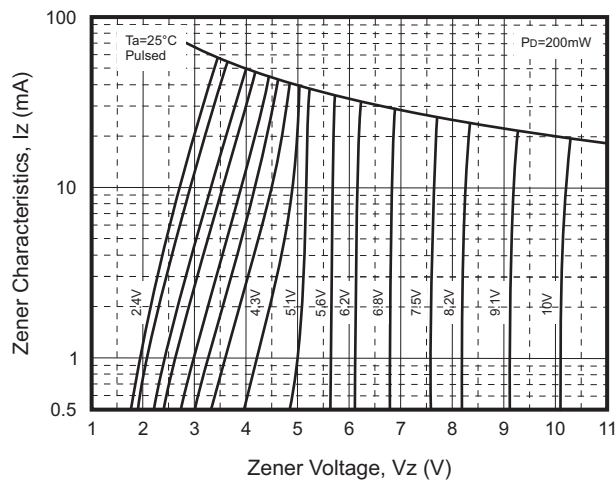


Fig.1 - Zener Characteristics (11V to 39V)

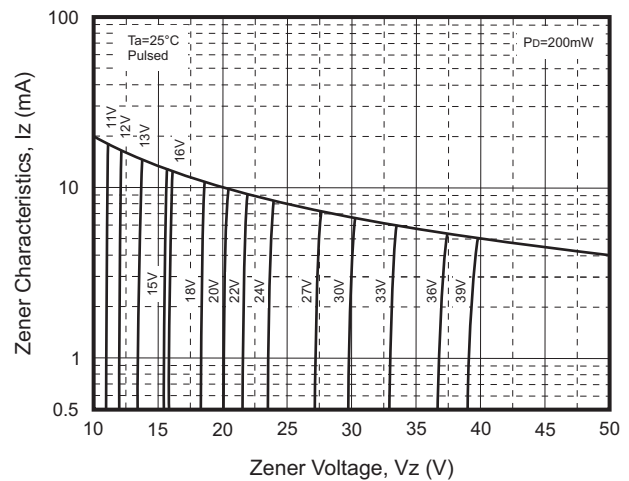


Fig.3 - Typical Capacitance

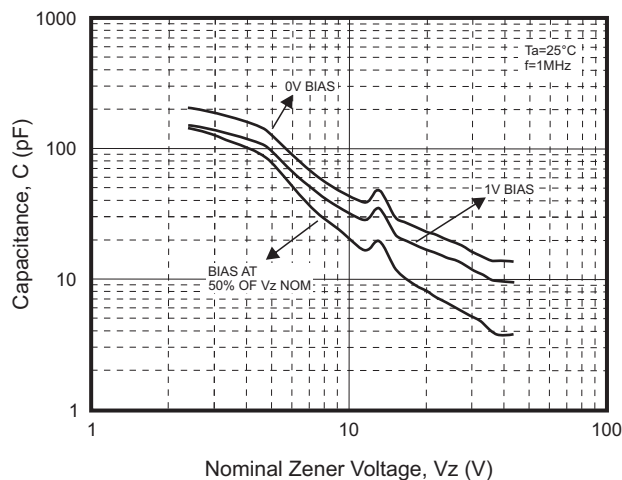


Fig.4 - Effect of Zener Voltage on Zener Impedance

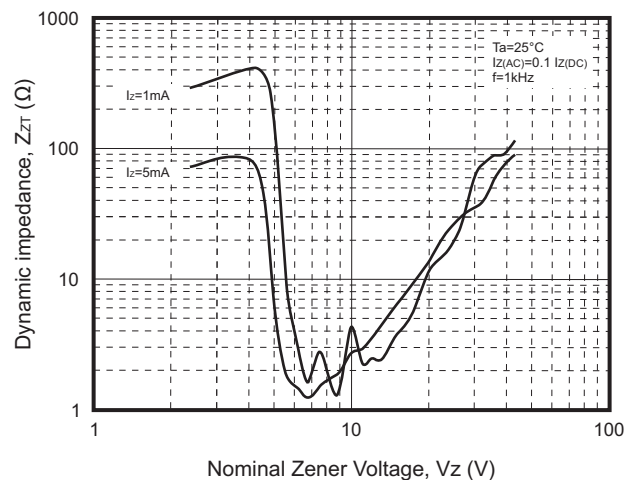
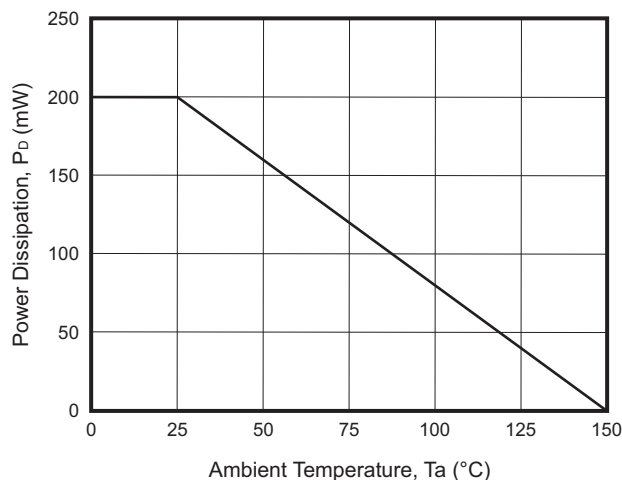


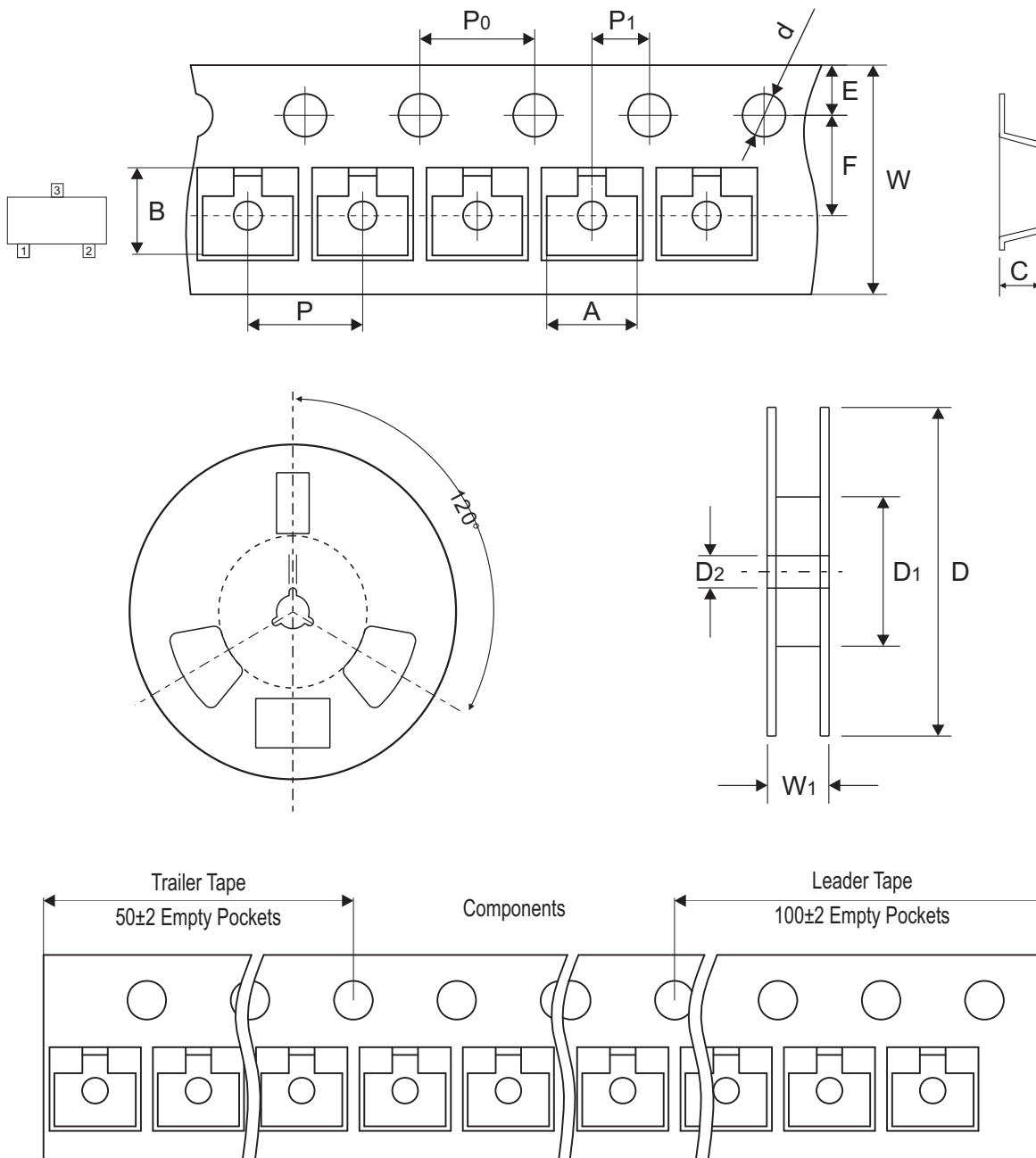
Fig.5 - Power Derating Curve



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REV:B

Reel Taping Specification



SOT-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.25 ± 0.05	2.55 ± 0.05	1.19 ± 0.05	1.55 ± 0.10	178.00 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.089 ± 0.002	0.100 ± 0.002	0.047 ± 0.002	0.061 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

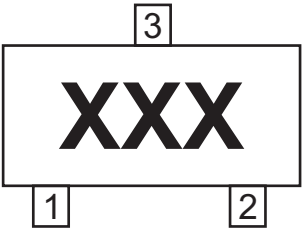
SOT-323	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 - 0.10	12.30 ± 0.10
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 + 0.012 - 0.004	0.484 ± 0.039

Company reserves the right to improve product design , functions and reliability without notice.

REV:B

Marking Code

Part Number	Marking Code
CZRV3-55C2V4-G ~ CZRV3-55C39-G	XXX

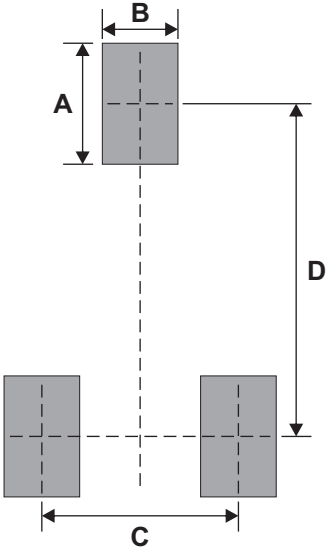


XXX = Product type marking code
(See page. 2)

Suggested PAD Layout

SIZE	SOT-323	
	(mm)	(inch)
A	0.80	0.031
B	0.50	0.020
C	1.30	0.051
D	2.20	0.087

Notes: 1.General tolerance: ±0.05mm.
2.The pad layout is for reference purposes only.



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOT-323	3,000	7