

CZRL5225-G Thru. CZRL5267-G

Voltage: 3.0 ~ 75V

Power Dissipation: 500mW

RoHS Device

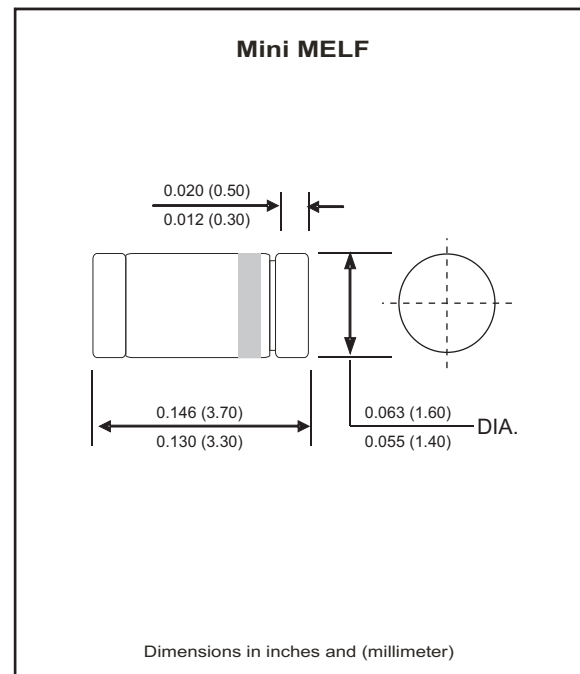


Features

- Silicon planar power Zener diodes.
- For use in stabilizing and clipping circuits with higher power rating.
- General purpose, Medium current.
- Ideal for surface mounted application.

Mechanical Data:

- Case: Molded glass Mini-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode
- Mounting position: Any
- Approx. weight: 0.03 grams



Maximum Rating And Electrical Characteristics

(TA=25°C, unless otherwise noted)

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	T _A = 25°C	P _D	500	mW
Forward voltage	I _F = 200mA	V _F	1.1	V
Junction temperature range		T _J	-65 ~ +175	°C
Storage temperature range		T _{STG}	-65 ~ +175	°C
Thermal resistance, Junction to ambient air		R _{θJA}	300	K/W

Note: Valid provided that electrodes are kept at ambient temperature.

SMD Zener Diode

Electrical Characteristics ($T_A=25^{\circ}\text{C}$, $V_F=1.5\text{V Max.}@I_F=200\text{mA}$ for all types)

Part No.	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current		Typ. Temp. Coefficient	Marking Code
	Vz @ IzT			ZzT @ IzT		ZzK @ IZK		IR @ VR		Tc % / °C	
	Nom.	Min.	Max.	ohm	mA	ohm	mA	uA	V		
CZRL5225B-G	3.0	2.85	3.15	29	20	1600	0.25	50.0	1.0	-0.075	5225
CZRL5226B-G	3.3	3.14	3.47	28	20	1600	0.25	25.0	1.0	-0.070	5226
CZRL5227B-G	3.6	3.42	3.78	24	20	1700	0.25	15.0	1.0	-0.065	5227
CZRL5228B-G	3.9	3.71	4.10	23	20	1900	0.25	10.0	1.0	-0.060	5228
CZRL5229B-G	4.3	4.09	4.52	22	20	2000	0.25	5.0	1.0	-0.055	5229
CZRL5230B-G	4.7	4.47	4.94	19	20	1900	0.25	5.0	2.0	±0.030	5230
CZRL5231B-G	5.1	4.85	5.36	17	20	1600	0.25	5.0	2.0	±0.030	5231
CZRL5232B-G	5.6	5.32	5.88	11	20	1600	0.25	5.0	3.0	0.038	5232
CZRL5233B-G	6.0	5.70	6.30	7	20	1600	0.25	5.0	3.5	0.038	5233
CZRL5234B-G	6.2	5.89	6.51	7	20	1000	0.25	5.0	4.0	0.045	5234
CZRL5235B-G	6.8	6.46	7.14	5	20	750	0.25	3.0	5.0	0.050	5235
CZRL5236B-G	7.5	7.13	7.88	6	20	500	0.25	3.0	6.0	0.058	5236
CZRL5237B-G	8.2	7.79	8.61	8	20	500	0.25	3.0	6.5	0.062	5237
CZRL5238B-G	8.7	8.27	9.14	8	20	600	0.25	3.0	6.5	0.065	5238
CZRL5239B-G	9.1	8.65	9.56	10	20	600	0.25	3.0	7.0	0.068	5239
CZRL5240B-G	10.0	9.50	10.50	17	20	600	0.25	3.0	8.0	0.075	5240
CZRL5241B-G	11.0	10.45	11.55	22	20	600	0.25	2.0	8.4	0.076	5241
CZRL5242B-G	12.0	11.40	12.60	30	20	600	0.25	1.0	9.1	0.077	5242
CZRL5243B-G	13.0	12.35	13.65	13	9.5	600	0.25	0.5	9.9	0.079	5243
CZRL5244B-G	14.0	13.30	14.70	15	9.0	600	0.25	0.1	10	0.082	5244
CZRL5245B-G	15.0	14.24	15.75	16	8.5	600	0.25	0.1	11	0.082	5245
CZRL5246B-G	16.0	15.20	16.80	17	7.8	600	0.25	0.1	12	0.083	5246
CZRL5247B-G	17.0	16.15	17.85	19	7.4	600	0.25	0.1	13	0.084	5247
CZRL5248B-G	18.0	17.10	18.90	21	7.0	600	0.25	0.1	14	0.085	5248
CZRL5249B-G	19.0	18.05	19.95	23	6.6	600	0.25	0.1	14	0.086	5249
CZRL5250B-G	20.0	19.00	21.00	25	6.2	600	0.25	0.1	15	0.086	5250
CZRL5251B-G	22.0	20.90	23.10	29	5.6	600	0.25	0.1	17	0.087	5251
CZRL5252B-G	24.0	22.80	25.20	33	5.2	600	0.25	0.1	18	0.087	5252
CZRL5253B-G	25.0	23.75	26.25	35	5.0	600	0.25	0.1	19	0.089	5253
CZRL5254B-G	27.0	25.65	28.35	41	4.6	600	0.25	0.1	21	0.090	5254
CZRL5255B-G	28.0	26.60	29.40	44	4.5	600	0.25	0.1	21	0.091	5255
CZRL5256B-G	30.0	28.50	31.50	49	4.2	600	0.25	0.1	23	0.091	5256
CZRL5257B-G	33.0	31.35	34.65	58	3.8	700	0.25	0.1	25	0.092	5257
CZRL5258B-G	36.0	34.20	37.80	70	3.4	700	0.25	0.1	27	0.093	5258
CZRL5259B-G	39.0	37.05	40.95	80	3.2	800	0.25	0.1	30	0.094	5259
CZRL5260B-G	43.0	40.85	45.15	93	3.0	900	0.25	0.1	33	0.095	5260
CZRL5261B-G	47.0	44.65	49.35	150	2.7	1000	0.25	0.1	36	0.095	5261

Note: 1. Zener voltage tolerance suffix "B" for $\pm 5\%$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$, $V_F=1.5\text{V Max.}@I_F=200\text{mA}$ for all types)

Part No.	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current		Typ. Temp. Coefficient	Marking Code
	VZ			ZZT @ IZT		ZZK @ IZK		IR @ VR		Tc % / °C	
	Nom.	Min.	Max.	ohm	mA	ohm	mA	uA	V		
CZRL5262B-G	51.0	48.45	53.55	125	2.5	1100	0.25	0.1	39	0.096	5262
CZRL5263B-G	56.0	53.20	58.80	150	2.2	1300	0.25	0.1	43	0.096	5263
CZRL5264B-G	60.0	57.00	63.00	170	2.1	1400	0.25	0.1	46	0.097	5264
CZRL5265B-G	62.0	58.90	65.10	185	2.0	1400	0.25	0.1	47	0.097	5265
CZRL5266B-G	68.0	64.60	71.40	230	1.8	1600	0.25	0.1	52	0.097	5266
CZRL5267B-G	75.0	71.25	78.75	270	1.7	1700	0.25	0.1	56	0.098	5267

Note: 1. Zener voltage tolerance suffix "B" for $\pm 5\%$

RATING AND CHARACTERISTIC CURVES (CZRL5225-G Thru. CZRL5267-G)

Fig.1 - Power Derating Curve

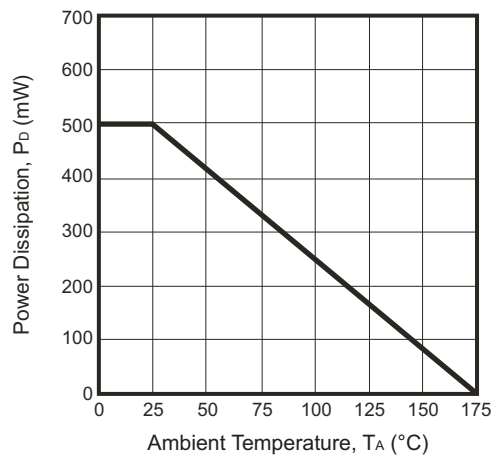
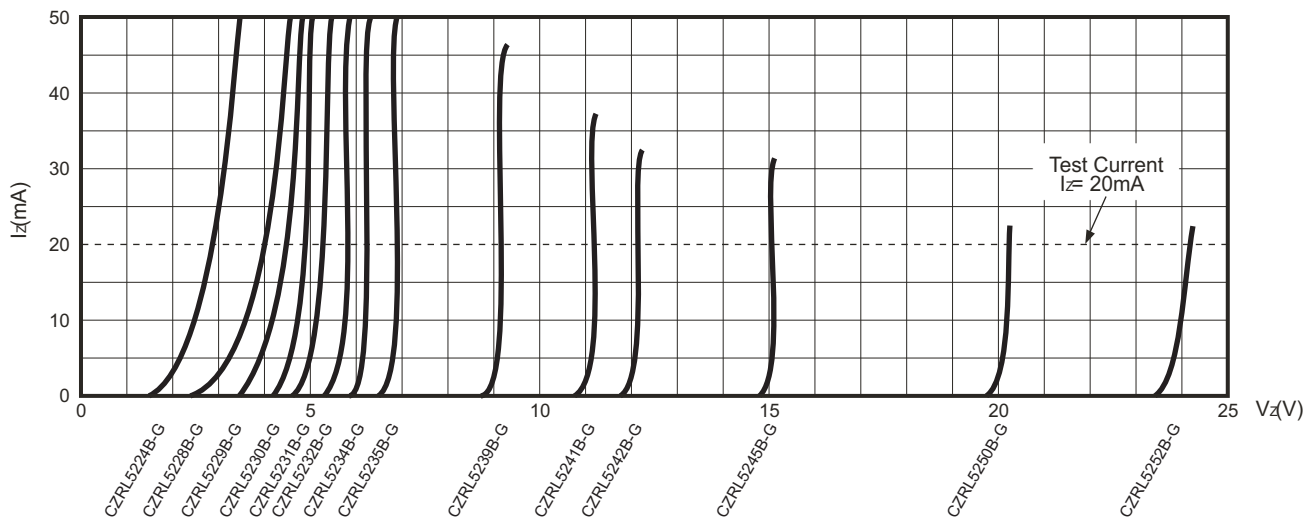
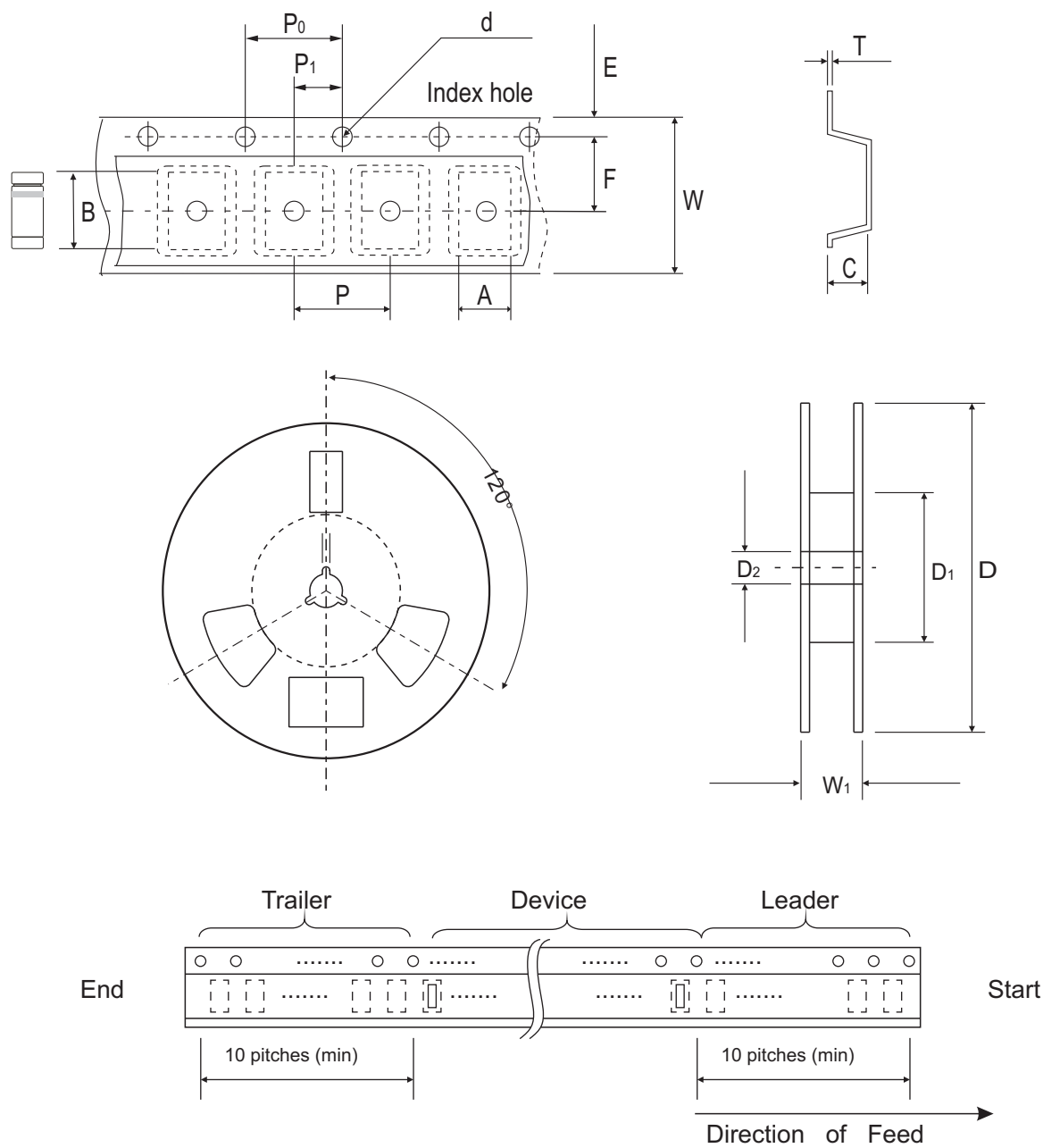


Fig.2 - Breakdown Characteristics



Reel Taping Specification



Mini MELF	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.00 (max)	3.70 (max)	1.80 (max)	1.50 ± 0.10	180 (max)	60.00 (min)	13.00 ± 0.50
	(inch)	0.079 (max)	0.146 (max)	0.017 (max)	0.059 ± 0.004	7.0 (max)	2.362 (min)	0.512 ± 0.020

Mini MELF	SYMBOL	E	F	P	P0	P1	W	W1
	(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	14.90 (max)
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 ± 0.012	0.587 (max)

Marking Code

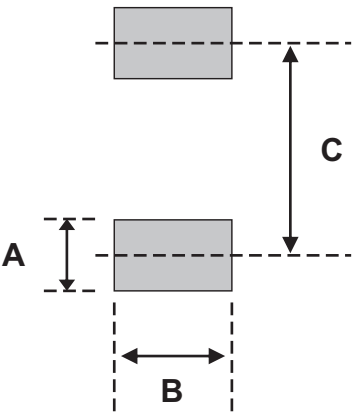


XXXX: Marking code (see Page.2~3)

 : Cathode Band

Suggested PAD Layout

SIZE	Mini MELF	
	(mm)	(inch)
A	0.90	0.035
B	1.80	0.070
C	3.50	0.137



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
Mini MELF	2,500	7