

SMD Zener Diode



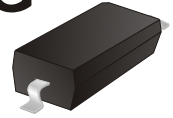
SMD Diodes Specialist

CZRW5221B-G Thru CZRW5267B-G

Voltage: 2.4 to 75 Volts

Power: 500 mWatts

RoHS Device



Features

For surface mounted applications.

500mW Power Dissipation.

Ideally suited for automated assembly processes.

Pb free product.

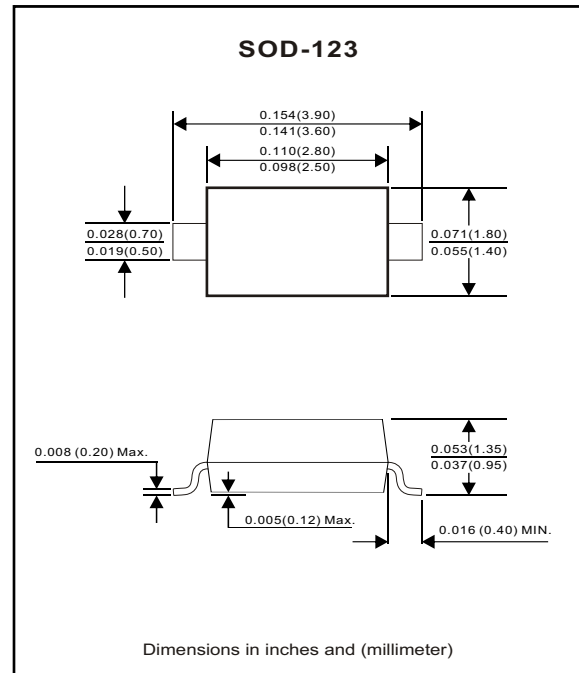
Mechanical data

Case: SOD-123, Molded plastic.

Terminals: Solder Plated, solderable per MIL-STD-750, method 2026.

Polarity: Cathode band.

Weight: 0.01 gram(approx.).



Maximum Rating AND Electrical Characteristics

Parameter	Symbol	Value	Unit
Maximum Power Dissipation, $T_A = 25^\circ\text{C}$	P_D	500	mW
Operating Junction and Storage Temperature Range	T_J	-55 to +150	$^\circ\text{C}$

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)	
CZRW5221B-G	2.28	2.4	2.52	30	20	1200	0.25	100	1	C1
CZRW5222B-G	2.38	2.5	2.63	30	20	1250	0.25	100	1	C2
CZRW5223B-G	2.57	2.7	2.84	30	20	1300	0.25	75	1	C3
CZRW5225B-G	2.85	3	3.15	30	20	1600	0.25	50	1	C5
CZRW5226B-G	3.14	3.3	3.47	28	20	1600	0.25	25	1	D1
CZRW5227B-G	3.42	3.6	3.78	24	20	1700	0.25	15	1	D2
CZRW5228B-G	3.71	3.9	4.1	23	20	1900	0.25	10	1	D3
CZRW5229B-G	4.09	4.3	4.52	22	20	2000	0.25	5	1	D4
CZRW5230B-G	4.47	4.7	4.94	19	20	1900	0.25	5	2	D5
CZRW5231B-G	4.85	5.1	5.36	17	20	1600	0.25	5	2	E1
CZRW5232B-G	5.32	5.6	5.88	11	20	1600	0.25	5	3	E2
CZRW5234B-G	5.89	6.2	6.51	7	20	1000	0.25	5	4	E4
CZRW5235B-G	6.46	6.8	7.14	5	20	750	0.25	3	5	E5
CZRW5236B-G	7.13	7.5	7.88	6	20	500	0.25	3	6	F1
CZRW5237B-G	7.79	8.2	8.61	8	20	500	0.25	3	6	F2
CZRW5239B-G	8.65	9.1	9.56	10	20	600	0.25	3	6.5	F4
CZRW5240B-G	9.5	10	10.5	17	20	600	0.25	3	8	F5
CZRW5241B-G	10.45	11	11.55	22	20	600	0.25	3	8.4	H1
CZRW5242B-G	11.4	12	12.6	30	20	600	0.25	2	9.1	H2
CZRW5243B-G	12.35	13	13.65	13	9.5	600	0.25	1	9.9	H3
CZRW5244B-G	13.3	14	14.7	15	9.0	600	0.25	0.5	10.5	H4
CZRW5245B-G	14.25	15	15.75	16	8.5	600	0.25	0.5	11	H5
CZRW5246B-G	15.2	16	16.8	17	7.8	600	0.25	0.1	12	J1
CZRW5247B-G	16.15	17	17.85	19	7.5	600	0.25	0.1	13	J2
CZRW5248B-G	17.1	18	18.9	21	7	600	0.25	0.1	14	J3
CZRW5250B-G	19	20	21	25	6.2	600	0.25	0.1	15	J5
CZRW5251B-G	20.9	22	23.1	29	5.6	600	0.25	0.1	17	K1
CZRW5252B-G	22.8	24	25.2	33	5.2	600	0.25	0.1	18	K2
CZRW5254B-G	25.65	27	28.35	41	5	600	0.25	0.1	21	K4
CZRW5255B-G	26.6	28	29.4	44	4.5	600	0.25	0.1	21	K5
CZRW5256B-G	28.5	30	31.5	49	4.2	600	0.25	0.1	23	M1
CZRW5257B-G	31.35	33	34.65	58	3.8	700	0.25	0.1	25	M2
CZRW5258B-G	34.2	36	37.8	70	3.4	700	0.25	0.1	27	M3
CZRW5259B-G	37.05	39	40.95	80	3.2	800	0.25	0.1	30	M4
CZRW5260B-G	40.85	43	45.15	93	3	900	0.25	0.1	33	M5
CZRW5261B-G	44.65	47	49.35	105	2.7	1000	0.25	0.1	36	N1
CZRW5262B-G	48.45	51	53.55	125	2.5	1100	0.25	0.1	39	N2
CZRW5263B-G	53.2	56	58.8	150	2.2	1300	0.25	0.1	43	N3
CZRW5264B-G	57	60	63	170	2.1	1400	0.25	0.1	46	N4
CZRW5265B-G	58.9	62	65.1	185	2	1500	0.25	0.1	47	N5
CZRW5266B-G	64.6	68	71.4	230	1.8	1600	0.25	0.1	52	P1
CZRW5267B-G	71.25	75	78.75	270	1.7	1400	0.25	0.1	56	P2

RATING AND CHARACTERISTIC CURVES (CZRW5221B-G Thru CZRW5267B-G)

Fig.1 Typical forward voltage

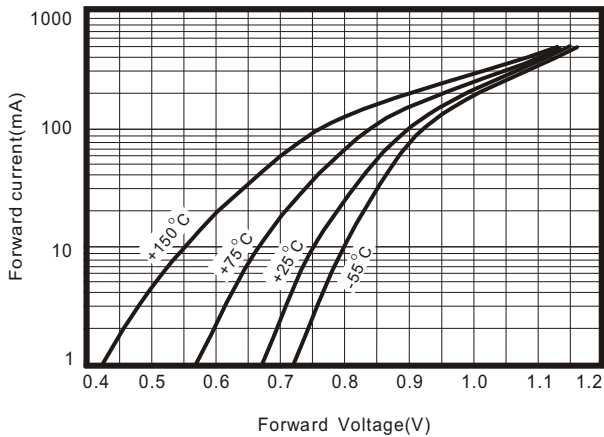


Fig.2 Typical leakage current

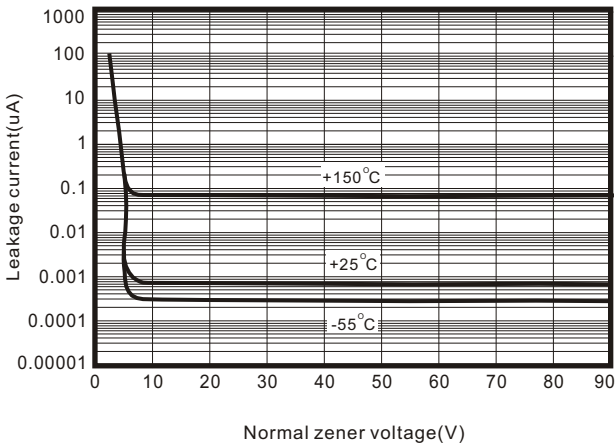


Fig.3 Temperature coefficients

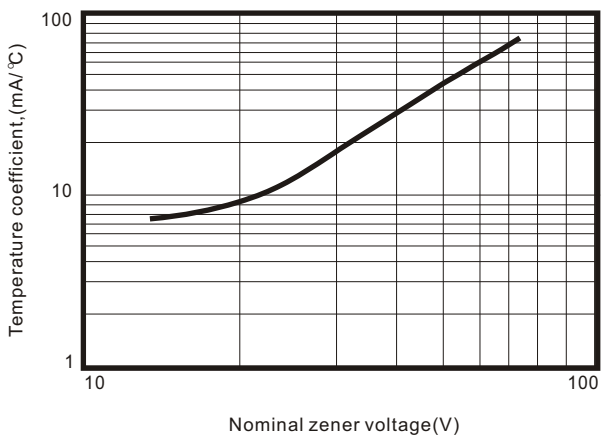


Fig.4 Steady state power derating

