

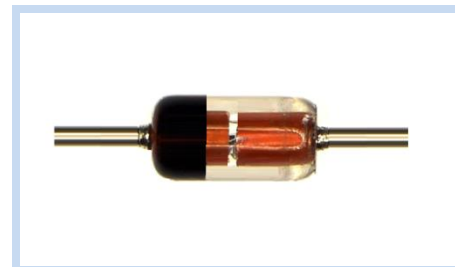
Zener Diodes DO-35G Axial Leaded

1N52-CG Series

MERITEK

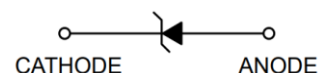
FEATURE

- Zener Voltage Range: 2.2V to 75V
- Zener Voltage Tolerance: $\pm 2\%$
- Power Dissipation: 500mW
- Planar Die Construction
- Non-Standard Zener Voltage and Tolerance available
- Application: Power Management Systems, Voltage Regulation



MECHANICAL DATA

- Case: DO-35G, Hermetical Sealed Glass Molded
- Polarity; Cathode Indicated by Band



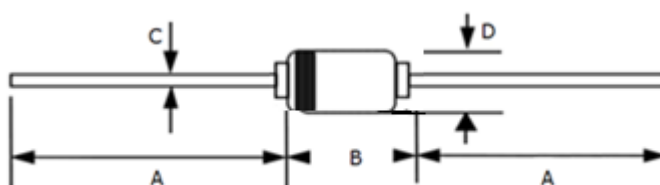
MAXIMUM RATINGS

Parameter	Symbols	Value	Unit
Power Dissipation	P_D	500	mW
Forward Voltage at $I_F=200\text{mA}$	V_F	1.1	V
Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3	K/mW
Junction Temperature	T_J	-65~+175	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65~+175	$^{\circ}\text{C}$

Note: $T_A=25^{\circ}\text{C}$ unless otherwise noted

DIMENSIONS

Item	DO-35	
	Min. (mm)	Max. (mm)
A	26.0	--
B	--	4.2
C	--	0.5
D	--	2.0



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ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage				Max Zener Impedance Z_{ZT} at I_{ZT} , Z_{ZK} at $I_{ZK}=0.25mA$		Max Reverse Leakage Current	
	V_Z at I_{ZT}			I_{ZT}	Z_{ZT}	Z_{ZK}	I_R at V_R	
	Nom (V)	Min (V)	Max (V)	(mA)	(Ω)	(Ω)	(μA)	(V)
1N5220CG	2.2	2.09	2.31	20	30	1150	100	1.0
1N5221CG	2.4	2.28	2.52	20	30	1200	100	1.0
1N5222CG	2.5	2.38	2.62	20	30	1250	100	1.0
1N5223CG	2.7	2.57	2.83	20	30	1300	75	1.0
1N5224CG	2.8	2.66	2.94	20	30	1400	75	1.0
1N5225CG	3.0	2.85	3.15	20	29	1600	50	1.0
1N5226CG	3.3	3.14	3.46	20	28	1600	25	1.0
1N5227CG	3.6	3.42	3.78	20	24	1700	15	1.0
1N5228CG	3.9	3.71	4.09	20	23	1900	10	1.0
1N5229CG	4.3	4.09	4.51	20	22	2000	5.0	1.0
1N5230CG	4.7	4.47	4.93	20	19	1900	5.0	2.0
1N5231CG	5.1	4.85	5.35	20	17	1600	5.0	2.0
1N5232CG	5.6	5.32	5.88	20	11	1600	5.0	3.0
1N5233CG	6.0	5.70	6.30	20	7	1600	5.0	3.5
1N5234CG	6.2	5.89	6.51	20	7	1000	5.0	4.0
1N5235CG	6.8	6.46	7.14	20	5	750	3.0	5.0
1N5236CG	7.5	7.13	7.87	20	6	500	3.0	6.0
1N5237CG	8.2	7.79	8.61	20	8	500	3.0	6.5
1N5238CG	8.7	8.27	9.13	20	8	600	3.0	6.5
1N5239CG	9.1	8.65	9.55	20	10	600	3.0	7.0
1N5240CG	10	9.50	10.50	20	17	600	3.0	8.0
1N5241CG	11	10.45	11.55	20	22	600	2.0	8.4
1N5242CG	12	11.40	12.60	20	30	600	1.0	9.1
1N5243CG	13	12.35	13.65	9.5	13	600	0.5	9.9
1N5244CG	14	13.30	14.70	9.0	15	600	0.1	10
1N5245CG	15	14.25	15.75	8.5	16	600	0.1	11
1N5246CG	16	15.20	16.80	7.8	17	600	0.1	12
1N5247CG	17	16.15	17.85	7.4	19	600	0.1	13
1N5248CG	18	17.10	18.90	7.0	21	600	0.1	14
1N5249CG	19	18.05	19.95	6.6	23	600	0.1	14
1N5250CG	20	19.00	21.00	6.2	25	600	0.1	15
1N5251CG	22	20.90	23.10	5.6	29	600	0.1	17
1N5252CG	24	22.80	25.20	5.2	33	600	0.1	18
1N5253CG	25	23.75	26.25	5.0	35	600	0.1	19
1N5254CG	27	25.65	28.35	4.6	41	600	0.1	21
1N5255CG	28	26.60	29.40	4.5	44	600	0.1	21

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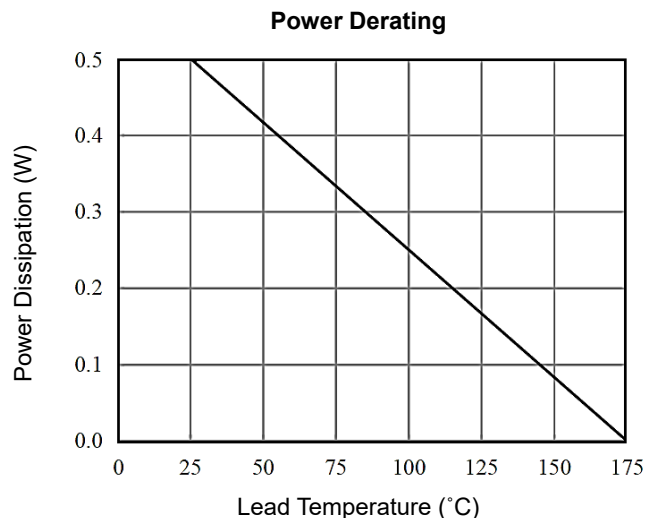
ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage				Max Zener Impedance Z_{ZT} at I_{ZT} , Z_{ZK} at $I_{ZK}=0.25mA$		Max Reverse Leakage Current	
	V_Z at I_{ZT}			I_{ZT}	Z_{ZT}	Z_{ZK}	I_R at V_R	
	Nom (V)	Min (V)	Max (V)	(mA)	(Ω)	(Ω)	(μA)	(V)
1N5256CG	30	28.50	31.50	4.2	49	600	0.1	23
1N5257CG	33	31.35	34.65	3.8	58	700	0.1	25
1N5258CG	36	34.20	37.80	3.4	70	700	0.1	27
1N5259CG	39	37.05	40.95	3.2	80	800	0.1	30
1N5260CG	43	40.85	45.15	3.0	93	900	0.1	33
1N5261CG	47	44.65	49.35	2.7	105	1000	0.1	36
1N5262CG	51	48.45	53.55	2.5	125	1100	0.1	39
1N5263CG	56	53.20	58.80	2.2	150	1300	0.1	43
1N5264CG	60	57.00	63.00	2.1	170	1400	0.1	46
1N5265CG	62	58.90	65.10	2.0	185	1400	0.1	47
1N5266CG	68	64.60	71.40	1.8	230	1600	0.1	52
1N5267CG	75	71.25	78.75	1.7	270	1700	0.1	56

Note:

1. $T_A = 25^\circ C$ unless otherwise noted
2. Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

CHARACTERISTIC CURVES



*Specifications subject to change without notice.