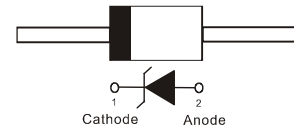
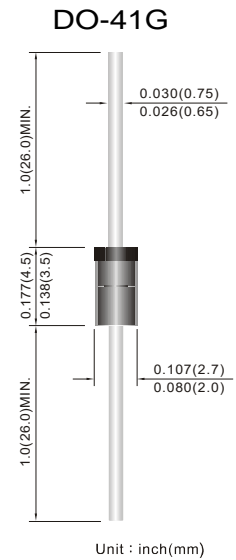


SILICON ZENER DIODE
FEATURES

- Low inductance
- High temperature soldering : 260°C / 10 seconds at terminals
- Glass package has Underwriters Laboratory Flammability Classification
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded Glass DO-41G
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Weight: 0.012 ounce, 0.317 gram


Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Units
Power Dissipation at $T_A=25^{\circ}\text{C}$	P_{TOT}	1*	W
Junction Temperature	T_J	-65 to +200	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to +200	$^{\circ}\text{C}$

*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	--	--	170*	$^{\circ}\text{C/W}$
Forward Voltage at $I_F = 200\text{mA}$	V_F	--	--	1.2	V

*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Maximum Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
1 Watt Zener Diodes										
1N4728AG	3.3	3.14	3.47	10	76	400	1	100	1	1N4728A
1N4729AG	3.6	3.42	3.78	10	69	400	1	100	1	1N4729A
1N4730AG	3.9	3.71	4.1	9	64	400	1	50	1	1N4730A
1N4731AG	4.3	4.09	4.52	9	58	400	1	10	1	1N4731A
1N4732AG	4.7	4.47	4.94	8	53	500	1	10	1	1N4732A
1N4733AG	5.1	4.85	5.36	7	49	550	1	10	1	1N4733A
1N4734AG	5.6	5.32	5.88	5	45	600	1	10	2	1N4734A
1N4735AG	6.2	5.89	6.51	2	41	700	1	10	3	1N4735A
1N4736AG	6.8	6.46	7.14	3.5	37	700	1	5	4	1N4736A
1N4737AG	7.5	7.13	7.88	4	34	700	0.5	5	5	1N4737A
1N4738AG	8.2	7.79	8.61	4.5	31	700	0.5	5	6	1N4738A
1N4739AG	9.1	8.65	9.56	5	28	700	0.5	0.5	7	1N4739A
1N4740AG	10	9.5	10.5	7	25	700	0.25	0.5	7.6	1N4740A
1N4741AG	11	10.45	11.55	8	23	700	0.25	0.1	8.4	1N4741A
1N4742AG	12	11.4	12.6	9	21	700	0.25	0.1	9.1	1N4742A
1N4743AG	13	12.35	13.65	10	19	700	0.25	0.1	9.9	1N4743A
1N4744AG	15	14.25	15.75	14	17	700	0.25	0.1	11.4	1N4744A
1N4745AG	16	15.2	16.8	16	15.5	700	0.25	0.1	12.2	1N4745A
1N4746AG	18	17.1	18.9	20	14	750	0.25	0.1	13.7	1N4746A
1N4747AG	20	19	21	22	12.5	750	0.25	0.1	15.2	1N4747A
1N4748AG	22	20.9	23.1	23	11.5	750	0.25	0.1	16.7	1N4748A
1N4749AG	24	22.8	25.2	25	10.5	750	0.25	0.1	18.2	1N4749A
1N4750AG	27	25.65	28.35	35	9.5	750	0.25	0.1	20.6	1N4750A
1N4751AG	30	28.5	31.5	40	8.5	1000	0.25	0.1	22.8	1N4751A
1N4752AG	33	31.35	34.65	45	7.5	1000	0.25	0.1	25.1	1N4752A
1N4753AG	36	34.2	37.8	50	7	1000	0.25	0.1	27.4	1N4753A
1N4754AG	39	37.05	40.95	60	6.5	1000	0.25	0.1	29.7	1N4754A
1N4755AG	43	40.85	45.15	70	6	1500	0.25	0.1	32.7	1N4755A
1N4756AG	47	44.65	49.35	80	5.5	1500	0.25	0.1	35.8	1N4756A
1N4757AG	51	48.45	53.55	95	5	1500	0.25	0.1	38.8	1N4757A
1N4758AG	56	53.2	58.8	110	4.5	2000	0.25	0.1	42.6	1N4758A
1N4759AG	62	58.9	65.1	125	4	2000	0.25	0.1	47.1	1N4759A
1N4760AG	68	64.6	71.4	150	3.7	2000	0.25	0.1	51.7	1N4760A
1N4761AG	75	71.25	78.75	175	3.3	2000	0.25	0.1	56	1N4761A

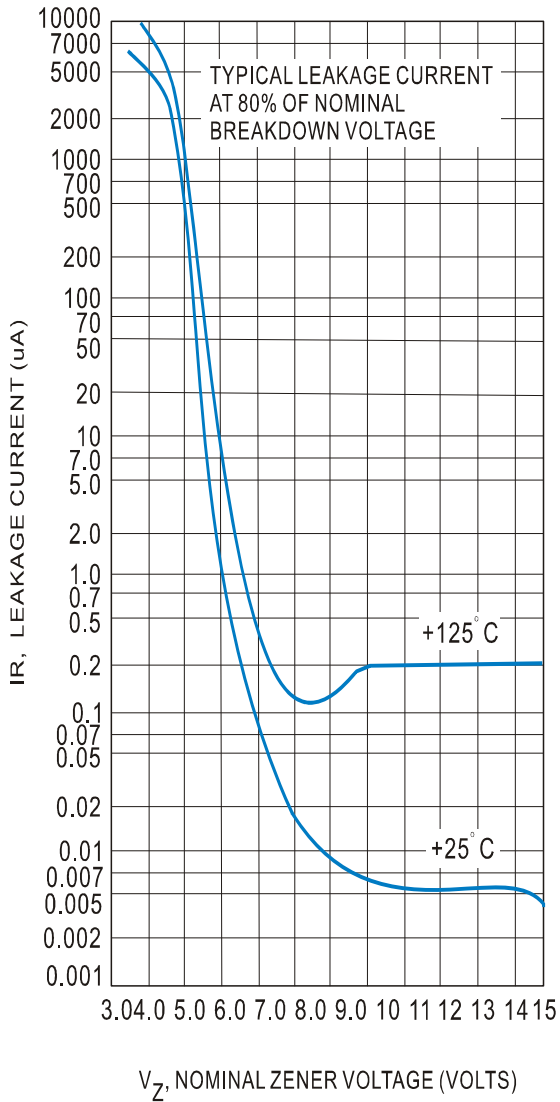
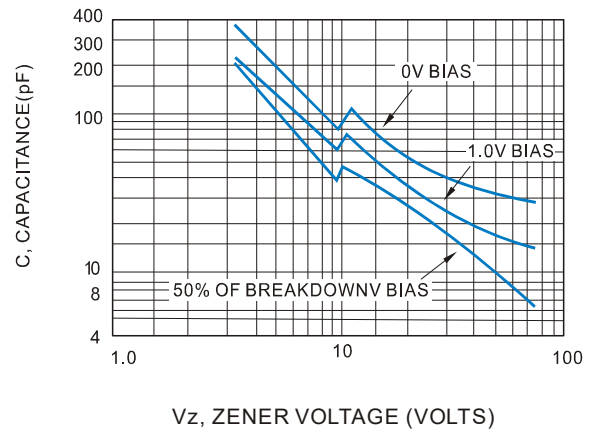
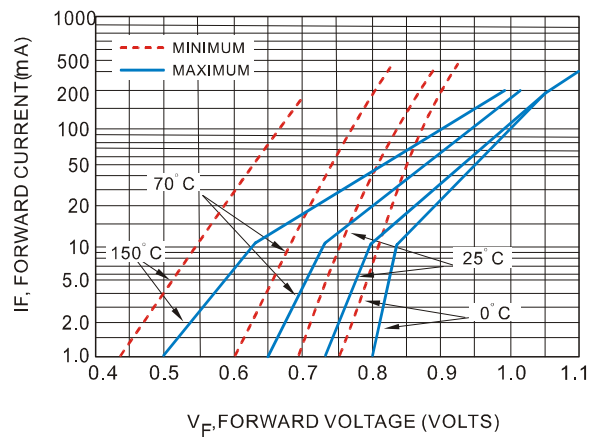
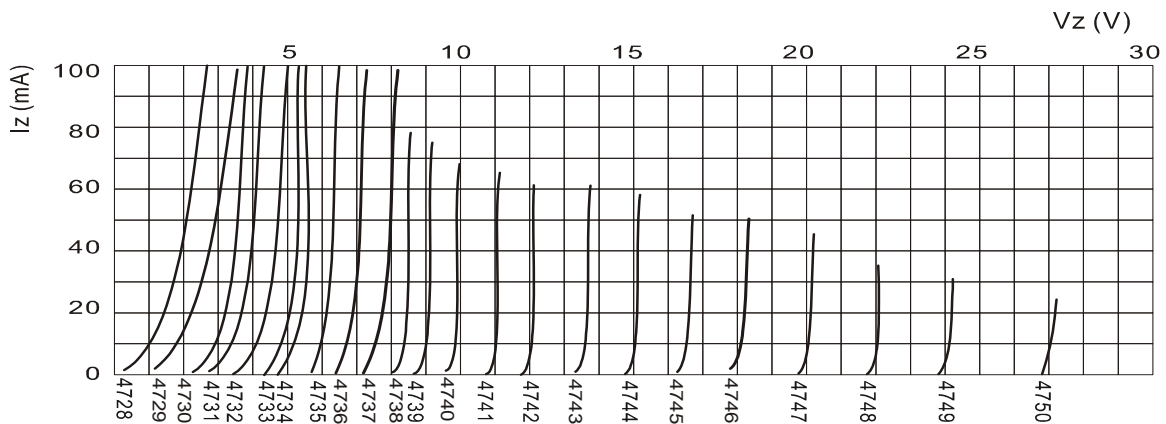
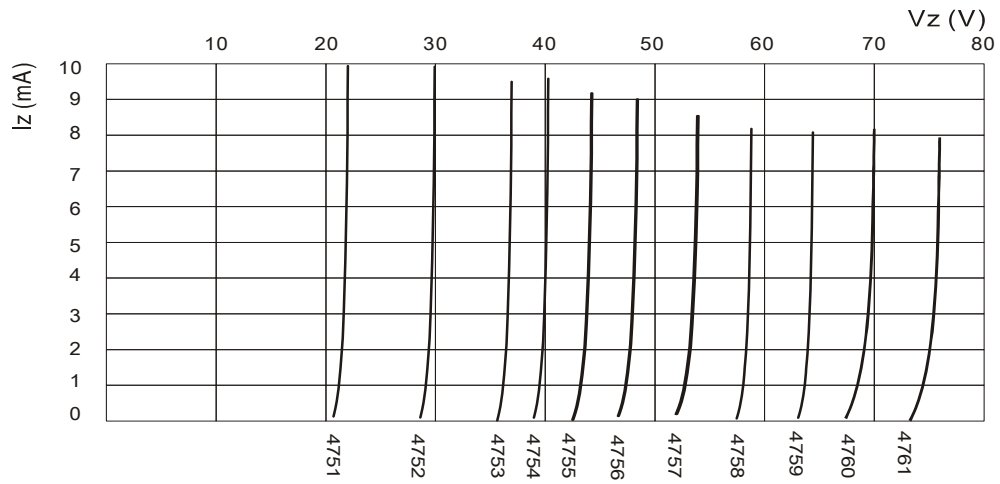
Fig.8 TYPICAL LEAKAGE CURRENT

Fig.9 TYPICAL CAPACITANCE versus V_Z

Fig.10 TYPICAL FORWARD CHARACTERISTICS

Fig.11 BREAKDOWN CHARACTERISTICS


Fig.12 BREAKDOWN CHARACTERISTICS



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