Certificate Number: Q10561

Certificate Number: E17276

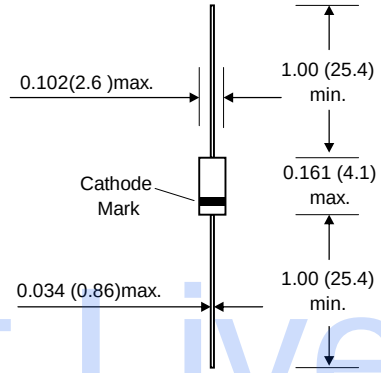
1N4728AG ~ 1N4764AG

ZENER DIODES

V_Z : 3.3 to 100V
P_D : 1.0 Watt

FEATURES :
- Silicon planar power zener diodes.
- For use in stabilizing and clipping circuits with high power rating.
- Standard zener voltage tolerance is ± 5%
- Other tolerances are available upon request.
- Pb / RoHS Free

DO-41 Glass
(DO-204AL)



Dimensions in inches and (millimeters)

MECHANICAL DATA :
Case: DO-41 Glass Case
Weight: approx. 0.35g

Maximum Ratings and Thermal Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Maximum Forward Voltage at I_F = 200 mA.	V_F	1.2	V
Power Dissipation	P_D	1.0(1)	W
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	100(1)	K / W
Junction temperature	T_J	175	°C
Storage temperature range	T_S	-55 to + 175	°C

Note:

(1) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

Type No.	Nominal Zener Voltage(3)		Maximum Zener Impedance(1)			Maximum Reverse Leakage Current		Maximum Regulator Current	Maximum Surge Current
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @	V_R	I_{ZM}(2)	I_{RM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mA)
1N4728AG	3.3	76.0	10	400	1.0	100	1.0	276	1380
1N4729AG	3.6	69.0	10	400	1.0	100	1.0	252	1260
1N4730AG	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
1N4731AG	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
1N4732AG	4.7	53.0	8.0	500	1.0	10	1.0	193	970
1N4733AG	5.1	49.0	7.0	550	1.0	10	1.0	178	890
1N4734AG	5.6	45.0	5.0	600	1.0	10	2.0	162	810
1N4735AG	6.2	41.0	2.0	700	1.0	10	3.0	146	730
1N4736AG	6.8	37.0	3.5	700	1.0	10	4.0	133	660
1N4737AG	7.5	34.0	4.0	700	0.5	10	5.0	121	605
1N4738AG	8.2	31.0	4.5	700	0.5	10	6.0	110	550
1N4739AG	9.1	28.0	5.0	700	0.5	10	7.0	100	500
1N4740AG	10	25.0	7.0	700	0.25	10	7.6	91	454
1N4741AG	11	23.0	8.0	700	0.25	5.0	8.4	83	414
1N4742AG	12	21.0	9.0	700	0.25	5.0	9.1	76	380
1N4743AG	13	19.0	10	700	0.25	5.0	9.9	69	344
1N4744AG	15	17.0	14	700	0.25	5.0	11.4	61	305
1N4745AG	16	15.5	16	700	0.25	5.0	12.2	57	285
1N4746AG	18	14.0	20	750	0.25	5.0	13.7	50	250
1N4747AG	20	12.5	22	750	0.25	5.0	15.2	45	225
1N4748AG	22	11.5	23	750	0.25	5.0	16.7	41	205
1N4749AG	24	10.5	25	750	0.25	5.0	18.2	38	190
1N4750AG	27	9.5	35	750	0.25	5.0	20.6	34	170
1N4751AG	30	8.5	40	1000	0.25	5.0	22.8	30	150
1N4752AG	33	7.5	45	1000	0.25	5.0	25.1	27	135
1N4753AG	36	7.0	50	1000	0.25	5.0	27.4	25	125
1N4754AG	39	6.5	60	1000	0.25	5.0	29.7	23	115
1N4755AG	43	6.0	70	1500	0.25	5.0	32.7	22	110
1N4756AG	47	5.5	80	1500	0.25	5.0	35.8	19	95
1N4757AG	51	5.0	95	1500	0.25	5.0	38.8	18	90
1N4758AG	56	4.5	110	2000	0.25	5.0	42.6	16	80
1N4759AG	62	4.0	125	2000	0.25	5.0	47.1	14	70
1N4760AG	68	3.7	150	2000	0.25	5.0	51.7	13	65
1N4761AG	75	3.3	175	2000	0.25	5.0	56.0	12	60
1N4762AG	82	3.0	200	3000	0.25	5.0	62.2	11	55
1N4763AG	91	2.8	250	3000	0.25	5.0	69.2	10	50
1N4764AG	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

Notes:

(1) The Zener impedance is derived from the 1kHZ AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units

(2) Valid provided that electrodes at a distance of 10mm from case are kept at ambient temperature

(3) Measured under thermal equilibrium and DC test conditions.

(4) Standard Zener voltage tolerance is ± 5% tolerance. Other Zener voltages and tolerances are available upon request.