

1N4728A-G SERIES

SILICON ZENER DIODE

VOLTAGE 3.3 to 75 Volt **POWER** 1 Watt

DO-41G Unit : inch(mm)

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
- Polarity: Color band denotes positive end
- Weight: 0.012 ounce, 0.317 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Power Dissipation at $T_A \leq 50^\circ\text{C}$	P_{TOT}	1*	W
Junction Temperature	T_J	-65 to +200	°C
Storage Temperature Range	T_{STG}	-65 to +200	°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*	°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.

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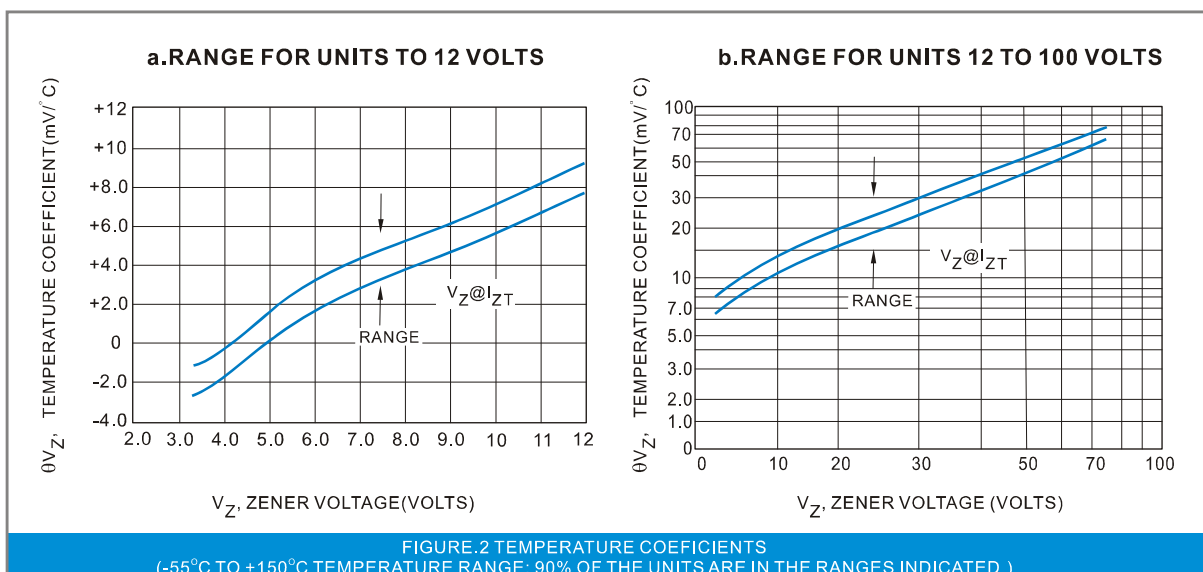
Part Number	Nominal Zener Voltage			Max. Zener Impedance				Maximum Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
1 Watt Zener Diodes										
1N4728A-G	3.3	3.14	3.47	10	76	400	1	100	1	1N4728A
1N4729A-G	3.6	3.42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

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NOTE:

1. Tolerance and Type Number Designation. The type numbers listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$
2. Specials Available Include:
 - A. Nominal zener voltages between the voltages shown and tighter voltage tolerances.
 - B. Matched sets.
3. Zener Voltage (V_Z) Measurement. Guarantees the zener voltage when measured at 90 seconds while maintaining the lead temperature (T_L) at $30^\circ\text{C} \pm 1^\circ\text{C}$, from the diode body.
4. Zener Impedance (Z_Z) Derivation. The zener impedance is derived from the 60 cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .
5. Surge Current (I_r) Non-Repetitive. The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2

RATING AND CHARACTERISTICS CURVES



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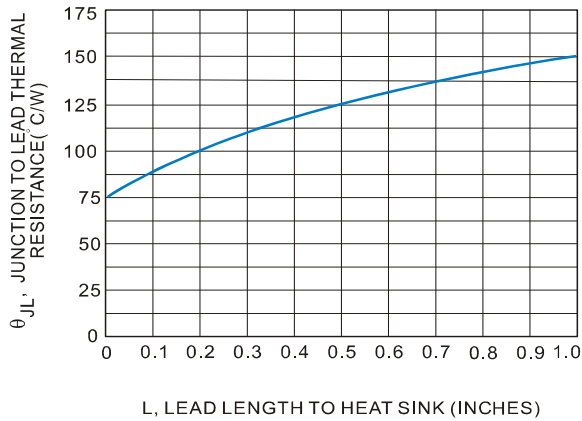


FIGURE.3 TYPICAL THERMAL RESISTANCE versus LEAD LENGTH

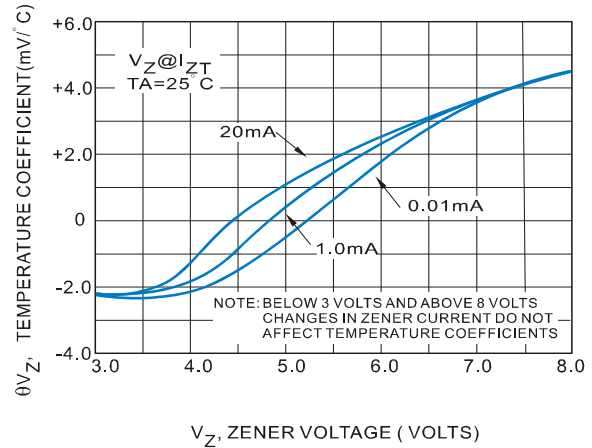
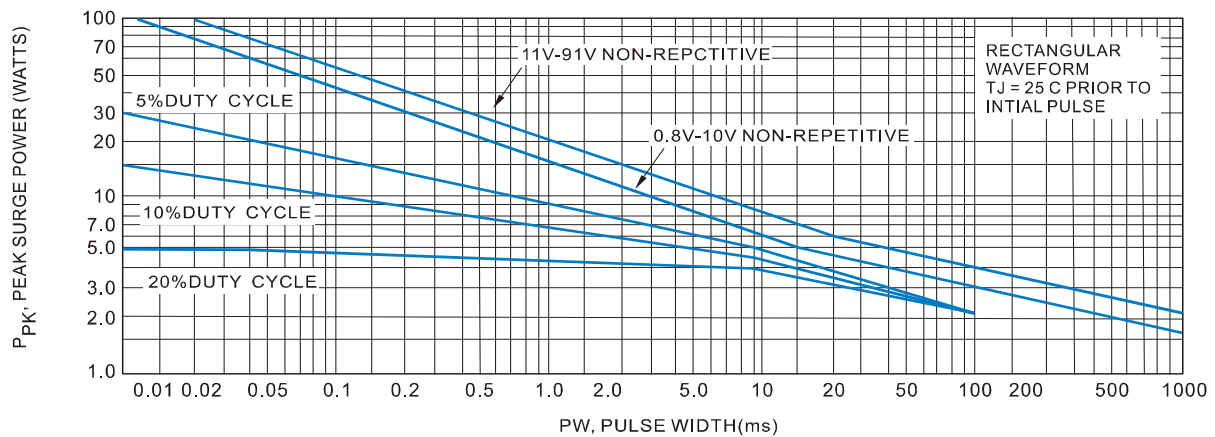


FIGURE.4 EFFECT OF ZENER CURRENT



This graph represents 90 percentile data points.
FOR worst-case design characteristics, multiply surge power by 2/3

FIGURE.5 MAXIMUM SURGE POWER

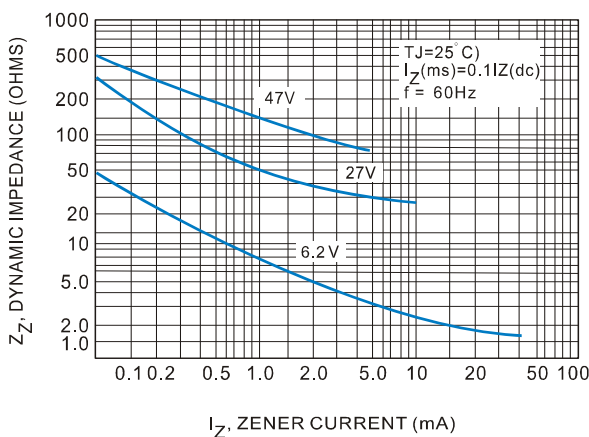


FIGURE.6 EFFECT OF ZENER CURRENT ON ZENER IMPEDANCE



FIGURE.7 EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

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FIGURE.8 TYPICAL LEAKAGE CURRENT

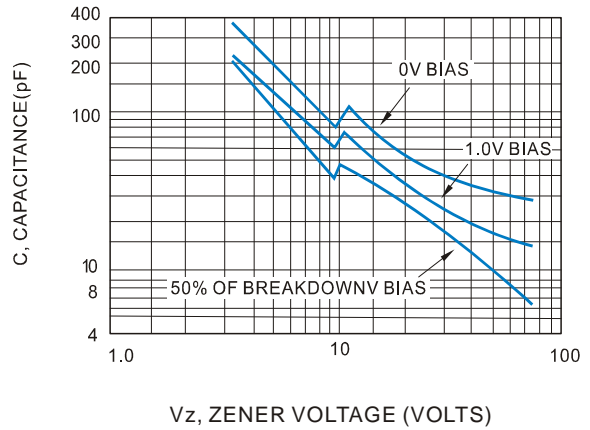


FIGURE.9 TYPICAL CAPACITANCE versus V_Z

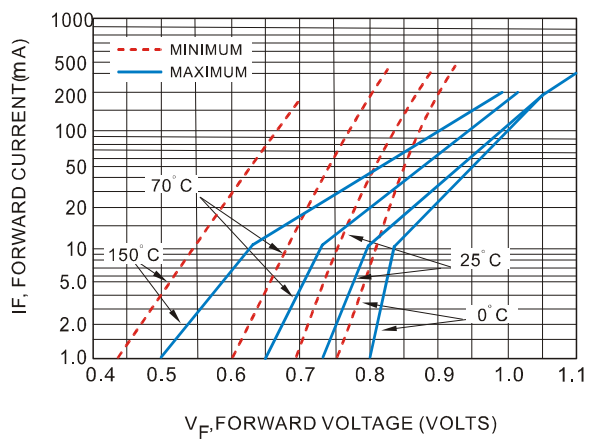


FIGURE.10 TYPICAL FORWARD CHARACTERISTICS

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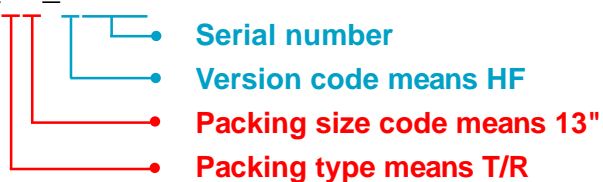
Part No_packing code_Version

1N4728A-G_AX_10001
1N4728A-G_AY_10001
1N4728A-G_BO_10001
1N4728A-G_R2_10001

For example :

RB500V-40_R2_00001

Part No.



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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