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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Anode



Small Signal Product

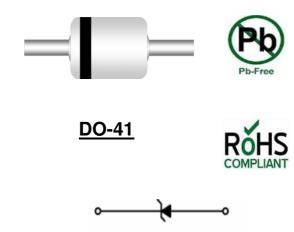
1W DO-41 Zener Volatge Regulators

FEATURES

- Zener voltage range 3.3 to 56Volts
- DO-41 package (JEDEC)
- Through-hole device type mounting
- Hermetically sealed glass
- Compression bonded construction
- All external surfaces are corrosion resistant and terminals are readily solderable
- Solder hot dip tin(Sn) lead finish
- Pb free and RoHS compliant



- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode
- High temperature soldering guaranteed: ' 260°C/10 s
- Weight: 0.270~0.290 grams
- Marking code: 1N47XXG for ± 5% Vz



Cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	VALUE	UNIT			
Power Dissipation	P _D	1	W			
Thermal Resistance Junction to Lead	R _{jl}	53.5	°C/W			
Thermal Resistance Junction to Ambient	R _{ja}	100	°C/W			
OperatingTemperature Range	T _{OPR}	- 65 to + 200	°C			
Storage Temperature Range	T _{STG}	- 65 to + 200	°C			

Note: These ratings are limiting values above which the serviceability of the diode may be impaired



ELECTRICAL CHARACTERISTICS (Ratings at T_A=25°C ambient temperature unless otherwise specified)

 V_F Forward Voltage = 1.2 V Maximum @ I_F = 200 mA for all types

Type Type Type TN4728G 1N4729G 1N4730G 1N4731G 1N4732G 1N4733G 1N4733G 1N4734G 1N4735G	@ I _{ZT} I _{ZT} (V) (mA) Typ. 3.3 3.6 69 3.9 64 4.3 58 4.7 53 5.1 49 5.6 45 6.2 41 6.8 37	Z _{ZT} @ O _{ZK} (Ω) Max. 10 10 9 9 8 7 5	I _{ZK} (mA) 1 1 1 1 1 1 1 1	Z _{ZK} @ I _{ZK} (Ω) Max. 400 400 400 400 500 550 600	I _R @ V _R (μA) Max. 100 100 50 10 10	V _R (V)
1N4728G 1N4729G 1N4730G 1N4731G 1N4732G 1N4733G 1N4734G 1N4735G	Typ. (IIIA) 3.3 76 3.6 69 3.9 64 4.3 58 4.7 53 5.1 49 5.6 45 6.2 41	Max. 10 10 9 9 7 5	1 1 1 1 1 1 1	Max. 400 400 400 400 500 550	Max. 100 100 50 10	1 1 1 1 1
1N4728G 1N4729G 1N4730G 1N4731G 1N4732G 1N4733G 1N4734G 1N4735G	3.3 76 3.6 69 3.9 64 4.3 58 4.7 53 5.1 49 5.6 45 6.2 41	10 10 9 9 8 7 5	1 1 1 1 1	400 400 400 400 500 550	100 100 50 10	1 1 1 1 1
1N4729G 1N4730G 1N4731G 1N4732G 1N4733G 1N4734G 1N4735G	3.6 69 3.9 64 4.3 58 4.7 53 5.1 49 5.6 45 6.2 41	10 9 9 8 7 5	1 1 1 1 1	400 400 400 500 550	100 50 10 10	1 1 1 1
1N4730G 1N4731G 1N4732G 1N4733G 1N4734G 1N4735G	3.9 64 4.3 58 4.7 53 5.1 49 5.6 45 6.2 41	9 9 8 7 5	1 1 1 1	400 400 500 550	50 10 10	1 1 1
1N4731G 1N4732G 1N4733G 1N4734G 1N4735G	4.3 58 4.7 53 5.1 49 5.6 45 6.2 41	9 8 7 5	1 1 1	400 500 550	10 10	1 1
1N4732G 1N4733G 1N4734G 1N4735G	4.7 53 5.1 49 5.6 45 6.2 41	8 7 5	1 1 1	500 550	10	1
1N4733G 1N4734G 1N4735G	5.1 49 5.6 45 6.2 41	7 5	1	550		
1N4734G 1N4735G	5.6 45 6.2 41	5	1		10	
1N4735G	6.2 41			600		1
		2		000	10	2
1N4736G	6.8 37		1	700	10	3
		3.5	1	700	10	4
1N4737G	7.5 34	4	0.5	700	10	5
1N4738G	8.2 31	4.5	0.5	700	10	6
1N4739G	9.1 28	5	0.5	700	10	7
1N4740G	10 25	7	0.25	700	10	7.6
1N4741G	11 23	8	0.25	700	5	8.4
1N4742G	12 21	9	0.25	700	5	9.1
1N4743G	13 19	10	0.25	700	5	9.9
1N4744G	15 17	14	0.25	700	5	11.4
1N4745G	16 15.5	16	0.25	700	5	12.2
1N4746G	18 14	20	0.25	700	5	13.7
1N4747G	20 12.5	22	0.25	750	5	15.2
1N4748G	22 11.5	23	0.25	750	5	16.7
1N4749G	24 10.5	25	0.25	750	5	18.2
1N4750G	27 9.5	35	0.25	750	5	20.6
1N4751G	30 8.5	40	0.25	1000	5	22.8
1N4752G	33 7.5	45	0.25	1000	5	25.1
1N4753G	36 7	50	0.25	1000	5	27.4
	39 6.5	60	0.25	1000	5	29.7
1N4755G	43 6	70	0.25	1500	5	32.7
1N4756G	47 5.5	80	0.25	1500	5	35.8
1N4757G	51 5	95	0.25	1500	5	38.8
1N4758G	56 4.5	110	0.25	2000	5	42.6

Notes: 1. TOLERANCE AND TYPE NUMBER DESIGNATION (Vz)

The type numbers listed have a standard tolerance on the nmial zener voltage of ±5%.

2. SPECIAL AVAILABLE INCLUDE

Nomial zener voltages shown and tighter voltage, for detailed information on price, availability and delivery, contact your nearest Taiwan Semiconductor representative.

3. ZENER VOLTAGE (V_z) MEASUREMENT

The zener voltage (V_Z) is tested under pulse condition. The measured V_Z is guaranteed to be within specification with device junction in thermal equilibrium.

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 to I_{ZT} or I_{ZK} .



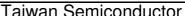


ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING		
1N47xxG	R0	G	DO-41	5K / 14" Reel		
(Note1,2)	A0	G	DO-41	3K / BOX (Ammo)		

Note 1: "xx" is Device Code from "28" through "58"

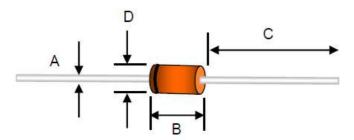
Note 2: Whole series with green compound.

EXAMPLE					
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
1N4728G R0G	1N4728G	R0	G	Green compound	





PACKAGE OUTLINE DIMENSIONS DO-41



DIM.	Unit (mm)		Unit (inch)	
DIW.	Min	Max	Min	Max
Α	0.50	0.90	0.020	0.035
В	3.50	5.20	0.138	0.205
С	22.00		0.866	
D	1.80	2.80	0.071	0.110

MARKING DIAGRAM



1N	
1N 47 XXG	
XXG	





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