



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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1N3821A THRU 1N3828A

Features

- Double Plug Construction
- Metallurgically Bound
- Marking: CathodeBand and Type Number
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Moisture Sensitivity Level 1

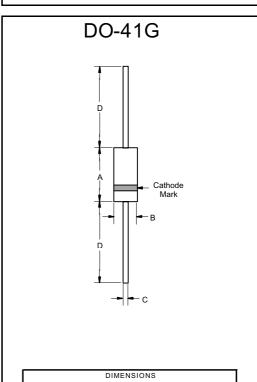
Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Forward Voltage at I _F =200mA	VF	1.2	V
Power Dissipation at T _L = 95° C	P _{tot}	1.0	W
Power Derating Abrove $T_L = 95^{\circ} C$		12.5	mW/°C
Operating Temperature	Tj	-65 ~ +175	°C
Storage Temperature Range	T _{STG}	-65 ~ +175	°C

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

1.0 Watt Zener Diode 3.3 to 6.2 Volts



DIMENSIONS					
DIM	INCHES		ММ		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α		0.177		4.50	
В		0.110		2.80	Diameter
С	0.026	0.034	0.70	0.90	Diameter
D	1.000		25.40		

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ELECTRICAL CHARACTERISTICS @25°C

	NOMINAL				MAX. DC	MAY D	EVEDOE
TYPE NUMBER	ZENER	TEST CURRENT	MAXIMUM ZENER IMPEDANCE		ZENER	MAX. REVERSE LEAKAGE CURRENT	
TYPE NUMBER	VOLTAGE				CURRENT		
	VZ @ IZT	IZT	ZZT @ IZT Z	ZZT @ IZT ZZK @ IZK=1mA		IR @ VR	
(NOTE 1)	(NOTE 3)		(NO	(NOTE 2)			
	VOLTS	mA	OHMS	онмѕ	mA	μ Α	VOLTS
1N3821	3.3	76	10	400	276	100	1
1N3821A	3.3	76	10	400	276	100	1
1N3822	3.6	69	10	400	252	75	1
1N3822A	3.6	69	10	400	252	75	1
1N3823	3.9	64	9	400	238	25	1
1N3823A	3.9	64	9	400	238	25	1
1N3824	4.3	58	9	400	213	5	1
1N3824A	4.3	58	9	400	213	5	1
1N3825	4.7	53	8	500	194	5	1
1N3825A	4.7	53	8	500	194	5	1
1N3826	5.1	49	7	550	178	3	1
1N3826A	5.1	49	7	550	178	3	1
1N3827	5.6	45	5	600	162	3	2
1N3827A	5.6	45	5	600	162	3	2
1N3828	6.2	41	2	700	146	3	3
1N3828A	6.2	41	2	700	146	3	3

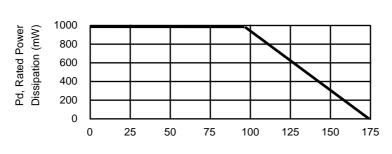
NOTE 1 No suffix = \pm 10% tolerance on nominal Zener voltage, suffix "A" signifies \pm 5%, suffix "C" signifies \pm 2%.

NOTE 2 Zener impedance is derived by superimposing on 1_{ZT} A 60Hz rms a.c. current equal to 10% of 1_{ZT}.

NOTE 3 Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of 25°C \pm 3°C.

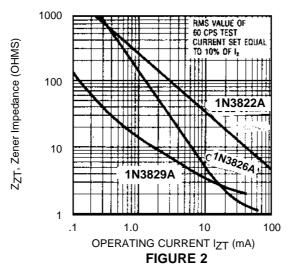






T_L , Lead temperature (°C) , 3/8" from body

POWER DERATING CURVE



ZENER IMPEDANCE VS. OPERATING CURRENT



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 2.5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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