



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

1N3821A
THRU
1N3828A

1.0 Watt
Zener Diode
3.3 to 6.2 Volts

DO-41G

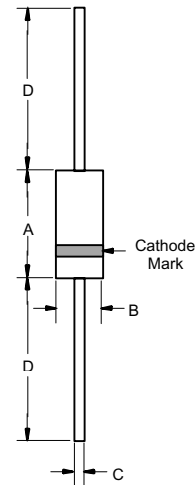


Table with 5 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. It lists dimensions A, B, C, and D with their respective minimum and maximum values in inches and millimeters.

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Table with 4 columns: Parameter, Symbol, Value, and Unit. It lists electrical and thermal parameters such as Forward Voltage (VF), Power Dissipation (Ptot), Power Derating, Operating Temperature (Tj), and Storage Temperature Range (TSTG).

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

# 1N3821A THRU 1N3828A



## ELECTRICAL CHARACTERISTICS @25°C

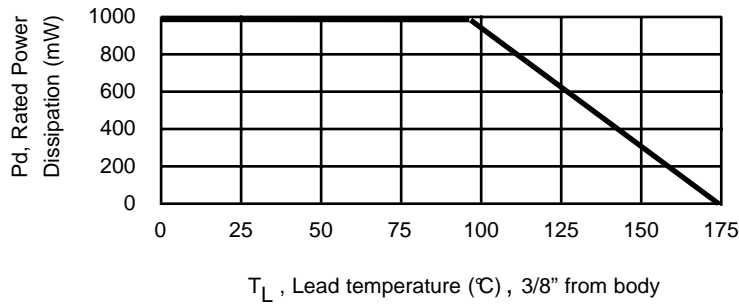
TYPE NUMBER	NOMINAL	TEST CURRENT	MAXIMUM ZENER IMPEDANCE		MAX. DC	MAX. REVERSE	
	ZENER				ZENER		
	VOLTAGE	IZT	ZZT @ IZT ZZK @ IZK=1mA		CURRENT	LEAKAGE CURRENT	
	VZ @ IZT				IZM		
(NOTE 1)	(NOTE 3)	(NOTE 2)					
	VOLTS	mA	OHMS	OHMS	mA	μ A	VOLTS
1N3821A	3.3	76	10	400	276	100	1
1N43821C	3.3	76	10	400	276	100	1
1N3822A	3.6	69	10	400	252	75	1
1N3822C	3.6	69	10	400	252	75	1
1N3823A	3.9	64	9	400	238	25	1
1N3823C	3.9	64	9	400	238	25	1
1N3824A	4.3	58	9	400	213	5	1
1N3824C	4.3	58	9	400	213	5	1
1N3825A	4.7	53	8	500	194	5	1
1N3825C	4.7	53	8	500	194	5	1
1N3826A	5.1	49	7	550	178	3	1
1N3826C	5.1	49	7	550	178	3	1
1N3827A	5.6	45	5	600	162	3	2
1N3827C	5.6	45	5	600	162	3	2
1N3828A	6.2	41	2	700	146	3	3
1N3828C	6.2	41	2	700	146	3	3

**NOTE 1** suffix "A" = ± 5% tolerance on nominal Zener voltage, suffix "C" signifies ± 2%.

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

**NOTE 3** Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ .

FIGURE 1



POWER DERATING CURVE

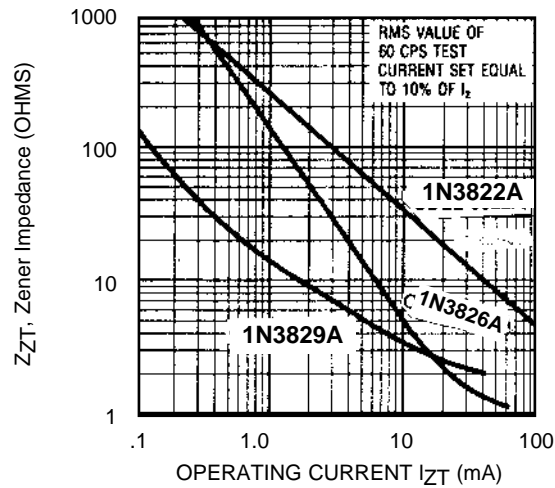


FIGURE 2  
ZENER IMPEDANCE VS. OPERATING CURRENT



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### 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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