



Micro Commercial Components



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1N3821A
THRU
1N3828A

1.0 Watt
Zener Diode
3.3 to 6.2 Volts

DO-41G

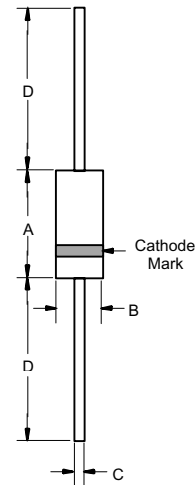


Table with 5 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. It lists dimensions A, B, C, and D with their respective minimum and maximum values in inches and millimeters.

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.

Table with 4 columns: Parameter, Symbol, Value, and Unit. It lists Forward Voltage at If=200mA (VF=1.2V), Power Dissipation at TL=95°C (Ptot=1.0W), Power Derating Above TL=95°C (12.5 mW/°C), Operating Temperature (Tj=-65 to +175°C), and Storage Temperature Range (TSTG=-65 to +175°C).

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

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ELECTRICAL CHARACTERISTICS @25°C

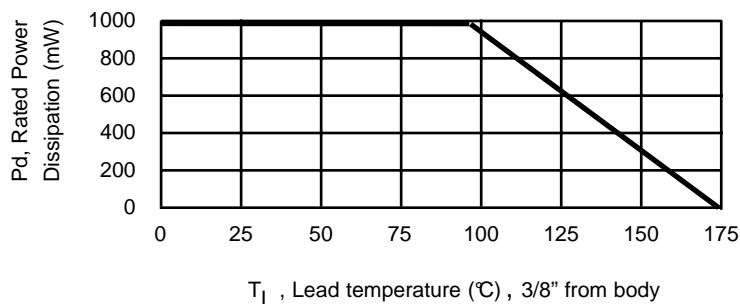
TYPE NUMBER	NOMINAL	TEST CURRENT	MAXIMUM ZENER IMPEDANCE		MAX. DC	MAX. REVERSE	
	ZENER				ZENER		
	VOLTAGE	IZT	ZZT @ IZT ZZK @ IZK=1mA		CURRENT	LEAKAGE CURRENT	
	VZ @ IZT				IZM		
(NOTE 1)	(NOTE 3)	(NOTE 2)					
	VOLTS	mA	OHMS	OHMS	mA	μ A	VOLTS
1N3821	3.3	76	10	400	276	100	1
1N3821A	3.3	76	10	400	276	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 = ± 10% tolerance on nominal Zener voltage, suffix "A" signifies ±5%, 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°C ± 3°C.

FIGURE 1



POWER DERATING CURVE

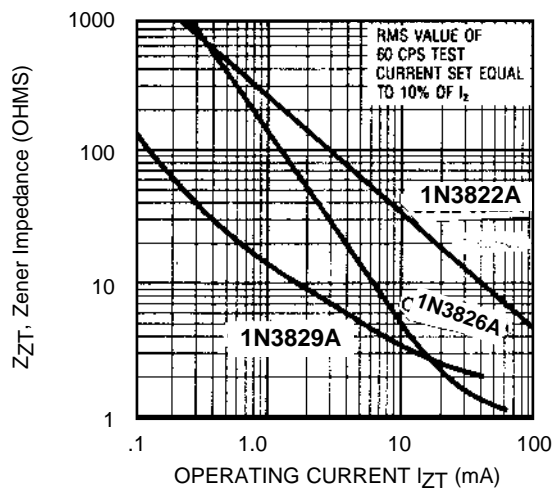


FIGURE 2
ZENER IMPEDANCE VS. OPERATING CURRENT



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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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