



Micro Commercial Components

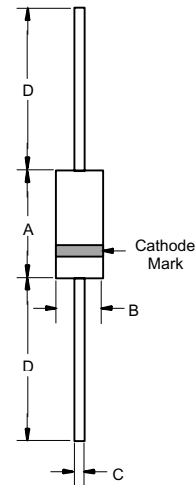


Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4 3

**1N3821A
 THRU
 1N3828A**

**1.0 Watt
 Zener Diode
 3.3 to 6.2 Volts**

DO-41G



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	-----	0.177	-----	4.50	
B	-----	0.110	-----	2.80	Diameter
C	0.026	0.034	0.70	0.90	Diameter
D	1.000	-----	25.40	-----	

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 $I_F=200\text{mA}$	V_F	1.2	V
Power Dissipation at $T_L = 95^\circ\text{C}$	P_{tot}	1.0	W
Power Derating Above $T_L = 95^\circ\text{C}$		12.5	mW/°C
Operating Temperature	T_j	-65 ~ +175	°C
Storage Temperature Range	T_{STG}	-65 ~ +175	°C

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

1N3821A THRU 1N3828A



ELECTRICAL CHARACTERISTICS @25°C

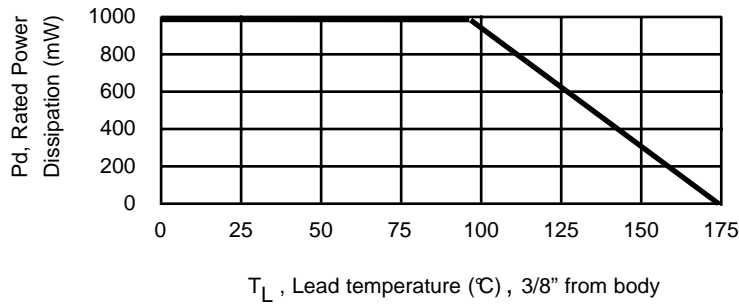
TYPE NUMBER	NOMINAL	TEST CURRENT	MAXIMUM ZENER IMPEDANCE		MAX. DC	MAX. REVERSE	
	ZENER				ZENER		
	VOLTAGE	IZT	ZZT @ IZT ZZK @ IZK=1mA		CURRENT	LEAKAGE CURRENT	
	VZ @ IZT				IZM		
(NOTE 1)	(NOTE 3)	(NOTE 2)					
	VOLTS	mA	OHMS	OHMS	mA	μ A	VOLTS
1N3821A	3.3	76	10	400	276	100	1
1N43821C	3.3	76	10	400	276	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

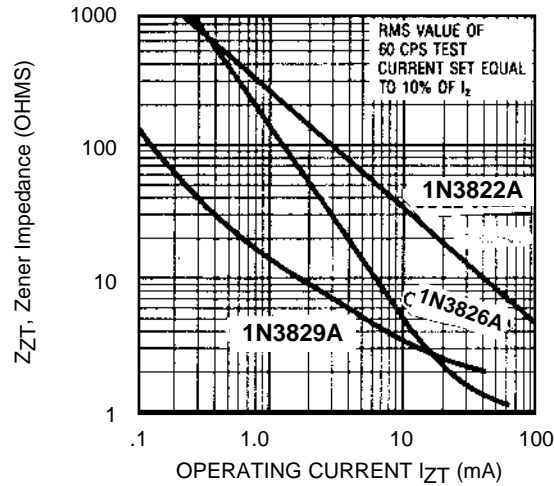


FIGURE 2
ZENER IMPEDANCE VS. OPERATING CURRENT



™

Micro Commercial Components

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.