



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

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**1N5268
 THRU
 1N5276**

Features

- Wide Voltage Range Available
- Glass Package
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Marking : Cathode band and type number
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Moisture Sensitivity: Level 1 per J-STD-020C

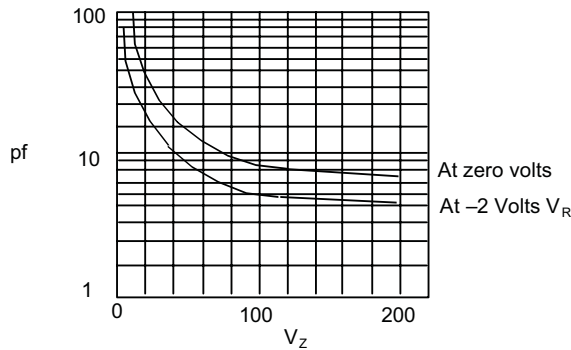
**500 mW
 Zener Diode
 82 to 150 Volts**

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- 500 mWatt DC Power Dissipation
- Power Derating: 4.0mW/°C above 50°C
- Forward Voltage @ 200mA: 1.1 Volts

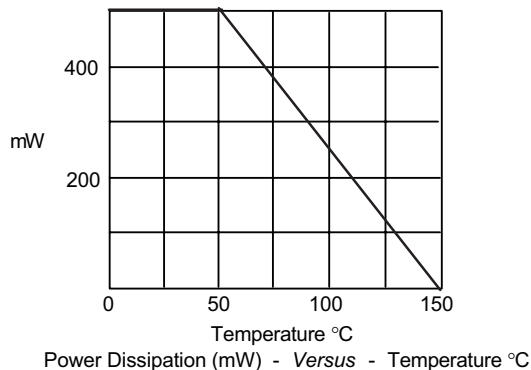
DO-35

Figure 1 - Typical Capacitance

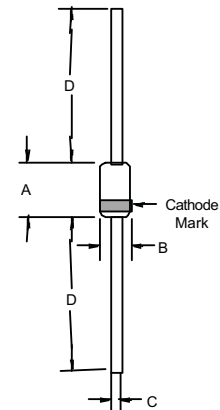


Typical Capacitance (pf) – versus Zener voltage (V_z)

Figure 2 - Derating Curve



Power Dissipation (mW) - Versus - Temperature °C



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

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

1N5268 thru 1N5276



ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	NOMINAL ZENER VOLTAGE $V_Z @ I_{ZT}$ VOLTS	TEST CURRENT I_{ZT} mA	MAXIMUM ZENER IMPEDANCE 'B' SUFFIX ONLY $Z_{ZT} @ I_{ZT}$ $Z_{ZK} @ I_{ZK} = 0.25mA$		MAXIMUM REVERSE LEAKAGE CURRENT $I_R @ V_R$		MAX. ZENER VOLTAGE TEMP COEFFICIENT 'B' SUFFIX ONLY %/°C
			OHMS	OHMS	μA	VOLTS	
1N5268	82	1.5	330	2000	0.1	62	+0.098
1N5269	87	1.4	370	2200	0.1	68	+0.099
1N5270	91	1.4	400	2300	0.1	69	+0.099
1N5272	110	1.1	750	3000	0.1	84	+0.110
1N5273	120	1.0	900	4000	0.1	91	+0.110
1N5274	130	0.95	1100	4500	0.1	99	+0.110
1N5275	140	0.90	1300	4500	0.1	106	+0.110
1N5276	150	0.85	1500	5000	0.1	114	+0.110

NOTE 1: Table as shown lists type numbers, which indicate a tolerance of $\pm 20\%$ with guaranteed limits on only V_Z , I_R , and V_F . Devices with guaranteed limits on all six parameters are indicated by suffix "A" for $\pm 10\%$, "B" for $\pm 5\%$, "C" for $\pm 2\%$ tolerance

NOTE 2: The electrical characteristics are measured after allowing the device to stabilize for 20 seconds.

NOTE 3: Temperature coefficient (α_{VZ}). Test conditions for temperature coefficient are as follows:

a. $I_{ZT} = 7.5mA$, $T_1 = 25^\circ C$, $T_2 = 125^\circ C$ (1N5221 thru 1N5242)

b. $I_{ZT} = \text{Rated } I_{ZT}$, $T_1 = 25^\circ C$, $T_2 = 125^\circ C$ (1N5243 thru 1N5276)

Device to be temperature stabilized with current applied prior to reading breakdown voltage at the specified ambient temperature.



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag

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