Obsolete

·M·C·C·™
Micro Commercial Components

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

1N5268 THRU 1N5276

500 mW Zener Diode 82 to 150 Volts

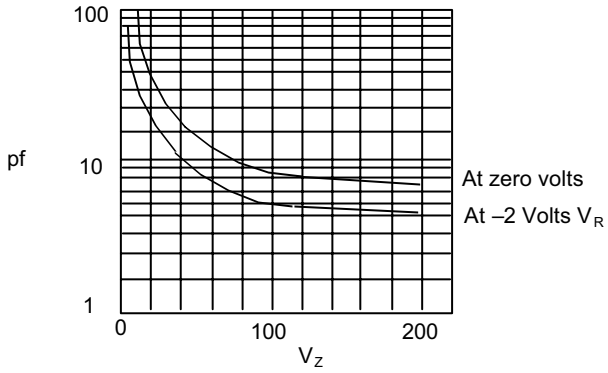
Features

- 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

Maximum Ratings

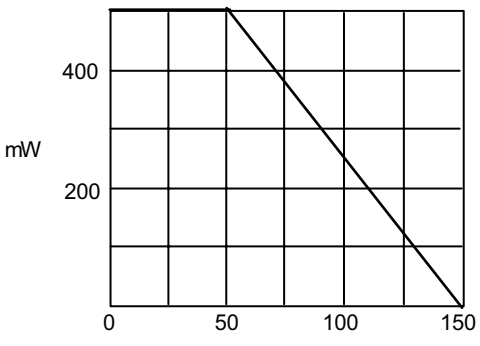
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- 500 mWatt DC Power Dissipation
- Power Derating: 4.0mW/°C above 50°C
- Forward Voltage @ 200mA: 1.1 Volts

Figure 1 - Typical Capacitance



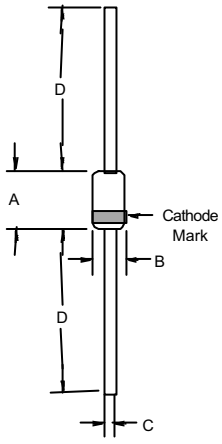
Typical Capacitance (pf) – *versus* Zener voltage (V_Z)

Figure 2 - Derating Curve



Power Dissipation (mW) - *Versus* - Temperature °C

DO-35



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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.

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT}	TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE 'B' SUFFIX ONLY		MAXIMUM REVERSE LEAKAGE CURRENT		MAX. ZENER VOLTAGE TEMP COEFFICIENT 'B' SUFFIX ONLY
			Z_{ZT} @ I_{ZT}	Z_{ZK} @I_{ZK} = 0.25mA	I_R @	V_R	
	VOLTS	mA	OHMS	OHMS	µA	VOLTS	% / °C
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 ±20% with guaranteed limits on only Vz, I_R, and V_F. Devices with guaranteed limits on all six parameters are indicated by suffix "A" for ±10%, "B" for ±5%, "C" for ±2% tolerance

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

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

a. I_{ZT} = 7.5mA, T_l = 25°C T_2 = 125°C (1N5221 thru 1N5242)

b. I_{ZT} = Rated I_{ZT}, T_l = 25°C, T_2 = 125°C (1N5243 thru 1N5276)

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

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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