



Micro Commercial Components
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1N5271

**500 mW
Zener Diode
100 Volts**

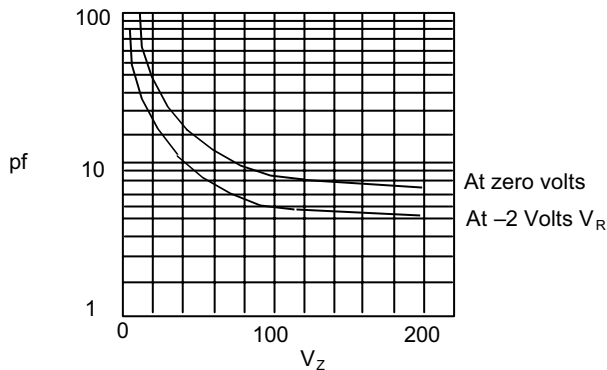
Features

- 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

Maximum Ratings

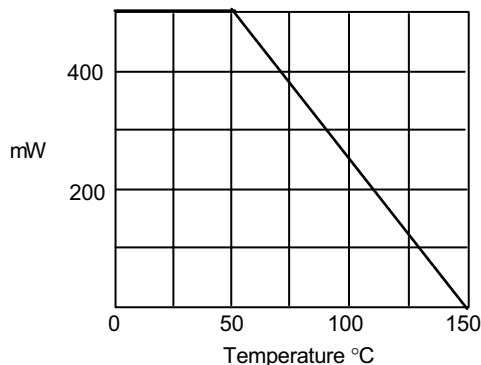
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- 500 mWatt DC Power Dissipation
- Power Derating: 4.0mW/°C above 50°C
- Forward Voltage @ 200mA: 1.1 Volts

Figure 1 - Typical Capacitance



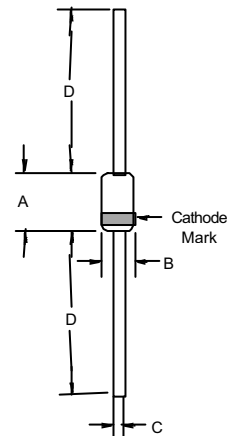
Typical Capacitance (pf) – versus – Zener voltage (V_Z)

Figure 2 - Derating Curve



Power Dissipation (mW) - Versus - Temperature °C

DO-35



DIMENSIONS					
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 7(C)-I.

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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 % / °C
			Z_{ZT} @ I_{ZT}	Z_{ZK} @ $I_{ZK} = 0.25\text{mA}$	I_R @ V_R		
			OHMS	OHMS	μA VOLTS		
1N5271	VOLTS 100	mA 1.3	500	2600	0.1	76	+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:

I_{ZT} = Rated I_{ZT} , $T_1 = 25^\circ\text{C}$ $T_2 = 125^\circ\text{C}$

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/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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