

Micro Commercial Components



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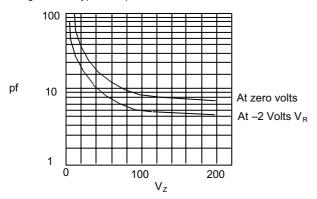
Features

- 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

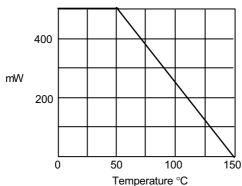
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- 500 mWatt DC Power Dissipation
- Power Derating: 4.0mW/°C above 50°C
- Forward Voltage @ 200mA: 1.1 Volts

Figure 1 - Typical Capacitance



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

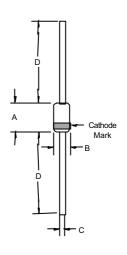
Figure 2 - Derating Curve



Power Dissipation (mW) - Versus - Temperature °C

500 mW Zener Diode 100 Volts

DO-35



DIMENSIONS								
	INCHES		ММ					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α		.166		4.2				
В		.079		2.00				
С		.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	NOMINAL ZENER VOLTAGE Vz @ Izt	TEST CURRENT Izt	MAXIMUM ZENER IMPEDANCE 'B' SUFFIX ONLY		MAXIMUM REVERSE LEAKAGE CURRENT		MAX. ZENER VOLTAGE TEMP COEFFICIENT 'B'
NUMBER	VOLINGE V2 @ 121	001414211121	Z _{ZT} @ I _{ZT}	$Z_{ZK} @I_{ZK} = 0.25 mA$	I _R @		SUFFIX ONLY
Ī	VOLTS	mA	OHMS	OHMS	μΑ	VOLTS	% / °C
1N5271	100	1.3	500	2600	0.1	76	+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 $\pm 10\%$, "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 (\acute{a}_{VZ}). Test conditions for temperature coefficient are as follows:

 I_{ZT} = Rated I_{ZT} , T_1 = 25°C T_2 = 125°C

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

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