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Also, Tight Tolerance  
**MPD100 thru MPD400A  
or  
MZ2360 and MZ2361**

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## PACKAGE DIMENSIONS

## APPLICATION

These axial lead diodes represent configurations of one to four\* p-n junctions in series which may be used in any application requiring tight tolerance, low voltage levels versus current. This method of low voltage regulation is comparatively superior in dynamic impedance (voltage change versus current) than low voltage zeners where tunneling instead of avalanche current is dominant. Typical applications include use as signal limiters, level shifters in transistor logic, meter protectors, and low voltage regulators. For computer circuit applications, a controlled stored charge selection is provided as well.

In addition, these devices may be used for temperature compensation wherein each p-n junction contributes approximately -2 mV/°C each.

\*Consult factory for more than four p-n junction configurations.

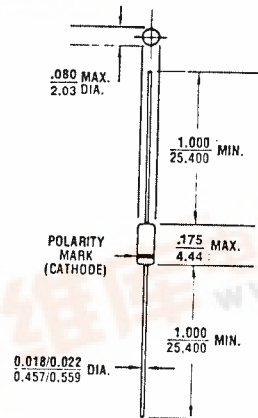


FIGURE 1

All dimensions in  $\frac{\text{INCH}}{\text{m.m.}}$

## DESCRIPTION/FEATURES

- Hermetically Sealed Glass Packages (DO-35)
- High Reverse Breakdown and Low Leakage
- Excellent Low Voltage Regulation
- Controlled Stored Charge
- Planar Passivated Die Elements

## MAXIMUM RATINGS

500 mW dc Power Rating\*\*

Power Derating 4.0 mW/°C above 50°C

Junction and Storage Temperatures: -65°C to +175°C

\*\*Consult factory for ratings up to 1.5W.

## DO-35

## MECHANICAL CHARACTERISTICS

\*Case: Hermetically sealed glass DO-35. DO-7 and DO-41 glass are optional. Single p-n junction devices also offered in DO-41 plastic.

Finish: All external surfaces are corrosion resistant and leads solderable.

Thermal Resistance: 200° C/W typical for DO-35 at 0.375 inches from body.

Mounting Position: Any.

Polarity: Cathode marked with band. To be operated with cathode negative for normal low voltage operation.

\* Designate case size when ordering.



TYPE	MAXIMUM REVERSE CURRENT			MINIMUM REVERSE BREAKDOWN VOLTAGE V <sub>BR</sub> (VOLTS) AT 5.0 μA	FORWARD VOLTAGE V <sub>F</sub> (VOLTS) AT I <sub>F</sub> @ 25°C												STORED CHARGE Q <sub>S</sub> (pC) AT 100 mA		MAXIMUM CAPACITANCE C (pF) AT 0 VOLTS	NUMBER OF PN JUNCTIONS
	25°C mA	150°C μA	@ V <sub>R</sub> VOLTS		I <sub>F</sub> 0.01 mA		I <sub>F</sub> 0.10 mA		I <sub>F</sub> 1.00 mA		I <sub>F</sub> 10.0 mA		I <sub>F</sub> 100.0 mA		MIN.	MAX.	MIN.	MAX.		
					MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.						
1N4156	50	50	20	30	0.740	1.090	0.970	1.220	1.210	1.410	1.380	1.580	1.540	1.840	50	500	25	2		
1N4157	50	50	20	30	1.190	1.540	1.520	1.770	1.850	2.050	2.120	2.320	2.360	2.660	50	500	20	3		
1N4453	50	50	20	30	—	—	0.510	0.630	0.600	0.710	0.690	0.800	0.800	0.920	50	500	30	1		
1N4829	100	25@100°C	20	30@100 μA	—	—	0.840	1.25	0.99	1.44	1.16	1.61	1.35	1.87	—	—	25	2		
1N4830	100	25@100°C	20	30@100 μA	—	—	1.35	1.80	1.63	2.08	1.90	2.35	2.15	2.69	—	—	20	3		
1N5179	50	—	20	30	—	—	1.80	2.50	2.20	2.80	2.60	3.20	3.00	3.70	50	500	20	4		
MPD100	30	50	30	30	0.45	0.500	0.535	0.590	0.618	0.677	0.700	0.765	0.790	0.880	75	300	30	1		
MPD100A	30	50	30	30	0.45	0.500	0.535	0.590	0.618	0.677	0.700	0.765	0.790	0.880	800*	—	40	1		
MPD200	30	50	30	30	0.900	1.00	1.05	1.16	1.22	1.34	1.39	1.54	1.60	1.76	75	400	30	2		
MPD200A	30	50	30	30	0.900	1.00	1.05	1.16	1.22	1.34	1.39	1.54	1.60	1.76	800*	—	40	2		
MPD300	30	50	30	60	1.40	1.54	1.62	1.78	1.84	2.03	2.10	2.33	2.40	2.65	75	400	30	3		
MPD300A	30	50	30	60	1.40	1.54	1.62	1.78	1.84	2.03	2.10	2.33	2.40	2.65	800*	—	40	3		
MPD400	30	50	30	90	1.82	2.01	2.14	2.36	2.47	2.71	2.80	3.07	3.16	3.52	60	300	30	4		
MPD400A	30	50	30	90	1.82	2.01	2.14	2.36	2.47	2.71	2.80	3.07	3.16	3.52	800*	—	40	4		
**N1Z2360	10 μA	—	5.0	—	—	—	—	—	—	—	0.63	0.71	—	—	—	—	—	1		
**N1Z2361	10 μA	—	5.0	—	—	—	—	—	—	—	1.24	1.38	—	—	—	—	—	2		

\*Q<sub>S</sub> at 10.0 mA\*\*Optionally supplied in DO-41 glass or plastic with P<sub>D</sub> = 1.5 W.