



american

power devices, inc.

APD200, APD300, APD400  
AP4156 - AP4157, AP5179

## Stabistor diodes — high speed, multi-pellet general purpose

### FEATURES

- Voltages from 1.210 to 3.700
- Tightly controlled forward voltages
- Double plug DO-35 package
- Multi-pellet design

### MAXIMUM RATINGS

- Junction Temperature -65°C to +175°C
- Storage Temperature -65°C to +175°C
- DC Power Dissipation: 400mW @  $T_L = 30^\circ\text{C}$
- Derate above 25°C: 2.67mW/°C

Stabistors are high conductance diffused silicon diodes with tightly controlled forward voltage characteristics. They are generally operated in the forward region and are designed to be used as stable forward reference sources.

They are manufactured with 2, 3 or 4 diode pellets in series and thus have a linear temperature response [mv/°c] over their ambient temperature range.

These devices are ideal in such applications as voltage regulation, sensing, comparing, protecting and in computer circuitry. Their highly controlled conductance is necessary for the design of clippers, dc coupling circuits, clamping circuits, meter protectors, bias regulators, low power clipping, level shifting, voltage regulation, temperature stabilization of transistor base-emitter biasing network and in many other applications where tight tolerances and low voltage levels are required.

### ELECTRICAL CHARACTERISTICS @ 25°C

Type	Forward Voltage V Volts		Test Current $I_f$ mA	Maximum Reverse Leakage Current $I_r$ @ 10V $\mu\text{A}$
	Minimum	Maximum		
APD200	1.220	1.340	1	10
	1.390	1.540	10	
	1.600	1.760	100	
APD300	1.840	2.030	1	10
	2.100	2.330	10	
	2.400	2.650	100	
APD400	2.470	2.710	1	10
	2.800	3.070	10	
	3.160	3.490	100	
AP4156	1.210	1.410	1	10
	1.380	1.580	10	
	1.540	1.840	100	
AP4157	1.850	2.050	1	10
	2.120	2.320	10	
	2.360	2.660	100	
AP5179	2.200	2.800	1	10
	2.600	3.200	10	
	3.000	3.700	100	

### MECHANICAL CHARACTERISTICS

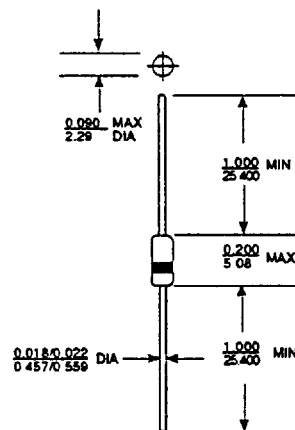


FIGURE 1 all dimensions in INCH mm

CASE: Hermetically sealed glass package (DO-35)  
FINISH: Corrosion resistant.  
Leads are tin plated.  
POLARITY: Cathode banded.  
WEIGHT: 0.2 grams (typ).

This series also offered in DO-7 package. Consult factory for availability.

### TYPICAL FORWARD VOLTAGE CHARACTERISTICS

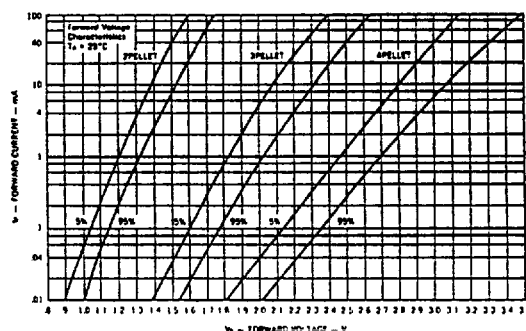


Figure 1 FORWARD VOLTAGE vs CURRENT  
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