

# STANDARD AND SUPER TUBES

## ELECTRICAL DATA

	STANDARD									SUPER								
	6844A Regular			8037 (B5031) Long Life			B5092 Long Life Wide Angle			7153 Regular			B6033 Long Life			B6091 Long Life Wide Angle		
<i>Absolute Ratings</i>																		
Ionization Voltage (Maximum)	170 Vdc			170 Vdc			170 Vdc			250 Vdc			170 Vdc			170 Vdc		
Supply Voltage (Minimum) See (Note 2)	170 Vdc			170 Vdc			170 Vdc			250 Vdc			170 Vdc			170 Vdc		
Cathode Current (Peak) See (Note 1)	4.0 ma			3.5 ma			3.5 ma			5.0 ma			4.5 ma			4.5 ma		
<i>Test Conditions</i> (See Basic Circuit, Fig. 1)																		
Supply Voltage	170 Vdc			170 Vdc			170 Vdc			250 Vdc			170 Vdc			170 Vdc		
Series Resistor	15 K			10 K			10 K			43 K			6.8K			6.8 K		
Cathode Current: (Minimum) (Maximum)	1.5 ma 3.0 ma			1.5 ma 3.0 ma			1.5 ma 3.0 ma			2.0 ma 3.0 ma			1.5 ma 4.0 ma			1.5 ma 4.0 ma		
<i>Recommended Operating Conditions (DC)</i> (See Basic Circuit, Fig. 1)																		
Supply Voltage (E)	170V	250V	300V	170V	250V	300V	170V	250V	300V	170V	250V	300V	170V	250V	300V	170V	250V	300V
Series Resistor (R)	15K	56K	82K	10K	56K	82K	10K	56K	82K	12K	43K	62K	6.8K	39 K	56K	6.8K	39 K	56K

Note 1. Due to life considerations only long life NIXIE tubes are recommended for pulsed operation.

Note 2. The minimum supply voltage should be as stated for each

tube type. However, the use of the highest voltage available, with the appropriate series resistor to maintain cathode current within the specified limits, is recommended.

## MECHANICAL DATA

	STANDARD									SUPER								
	6844A Regular			8037 (B5031) Long Life			B5092 Long Life Wide Angle			7153 Regular			B6033 Long Life			B6091 Long Life Wide Angle		
Outline Drawing	Figure 5			Figure 5			Figure 6			Figure 7			Figure 7			Figure 7		
Sockets	Page 23			Page 23			Page 23			Page 23			Page 23			Page 23		
Wiring Plugs	Page 23			Page 23			Page 23			Page 23			Page 23			Page 23		
Pin Straighteners	Page 23*			Page 23			Page 23			Page 23			Page 23			Page 23		
Pin Connections	Figure 8			Figure 8			Figure 8			Figure 8			Figure 8			Figure 8		

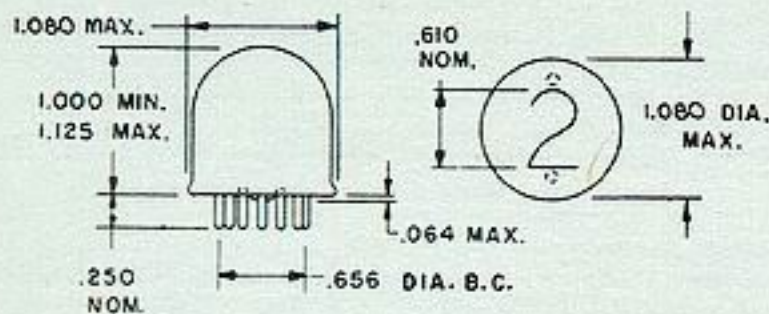


Fig. 5 — Outline Drawing for 6844A and B5031 Standard Type Tubes

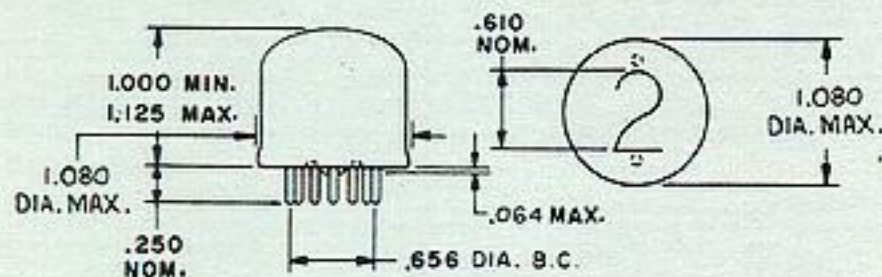


Fig. 6 — Outline Drawing for B5092 Type Tube

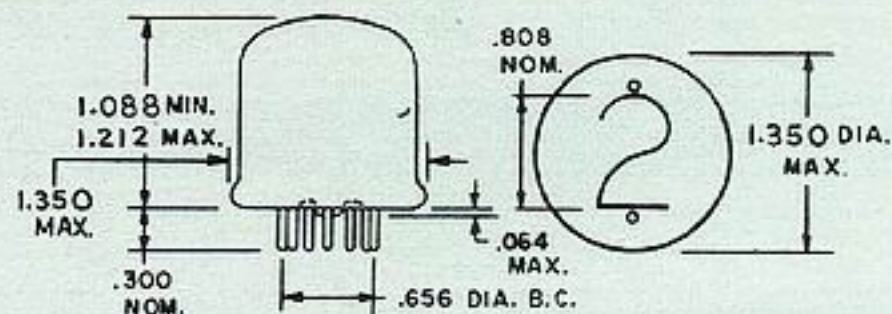
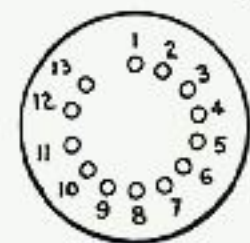


Fig. 7 — Outline Drawing for all Super Tube Types

### PIN CONNECTIONS



BOTTOM VIEW

For Proper viewing —  
Pins 1 and 8 should be  
vertically aligned with  
Pin 8 on top

PIN NO	CHARACTER
1 —	Internal Connection
2 —	Anode
3 —	Numeral 0
4 —	Numeral 9
5 —	Numeral 8
6 —	Numeral 7
7 —	Numeral 6
8 —	Internal Connection
9 —	Numeral 5
10 —	Numeral 4
11 —	Numeral 3
12 —	Numeral 2
13 —	Numeral 1

Fig. 8 — Pin Connections

## ENVIRONMENTAL DATA

Contact Applications Department for specific data on individual tube types —  
See Page 20 for general information