

MECHANICAL DATA

Bulb	T-9
Base ¹	13 Pin
Outline	See Drawing
Basing	See Drawing
Output Cathodes	No. 0 thru 9
Zero Position	No. 0 Cathode Centered Between Pins 12 and 13 $\pm 10^\circ$
Mounting Position	Any

ELECTRICAL DATA

INTERELECTRODE CAPACITANCES (Approx.)

Any Cathode to All Other Elements	4.2 pf
Guide No. 2 to All Other Elements	10 pf
Guide No. 1 to All Other Elements	11 pf

RATINGS (Absolute Values)

	Min.	Max.
Anode Supply Voltage ²	350	800 Volts
Voltage Between Electrodes (Other than Anode)	—	140 Volts
Transfer Voltage	35	140 Volts
Anode Current	0.3	0.6 Ma
Input Frequency	0	4 Kpps
Ambient Temperature	-55	+60°C

TYPICAL OPERATING CHARACTERISTICS

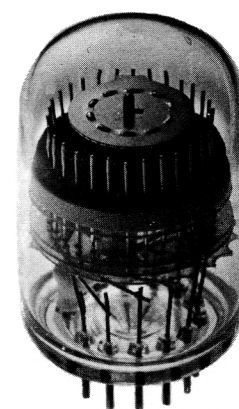
Anode Supply Voltage ²	350 Volts	
Nominal Tube Drop	187 Volts	
Guide Bias	+35 Volts	Min.
Square Double Pulse Drive Amplitude (Each Pulse) ³	-75 Volts	Min.
Square Double Pulse Width (Each Pulse) ³	60 μ Sec.	Min.
Forced Reset Pulse Amplitude	-120 Volts	Min.
Forced Reset Pulse Width	50 μ Sec.	Min.
Cathode Load Resistor ⁴	150 K-Ohms	Max.

NOTES:

- Sockets are available from Sylvania Electric Products Inc., 1035 Westminster, Williamsport, Pennsylvania. (Part No. 70-780-1)
- A value for the anode resistor can be computed by subtracting the nominal tube drop from the supply voltage and dividing the remainder by the desired operating current.
- Two separate pulses, back to back or with slight overlap, must be maintained.
- The peak pulse output voltage can be determined by the IR drop across the chosen cathode resistor.
- A counter tube brochure is available on request from Sylvania Electric Products Inc., 1100 Main Street, Buffalo 9, New York.

QUICK REFERENCE DATA

The Type 8353 is a cold cathode, bidirectional decade counter tube with top viewed readout. It is designed to operate at inputs up to 4000 pulses per second. All 10 cathodes are brought out to individual base pins. Applications include computing, scaling, counting, frequency dividing, coding, modulating, matrixing, indexing, multiplexing, addition and subtraction. (See Note 5.)



SYLVANIA ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.

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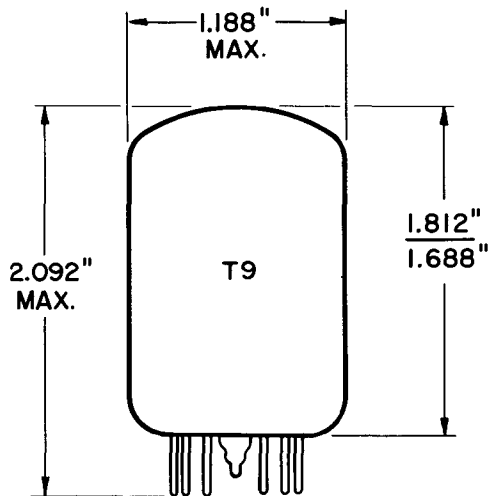
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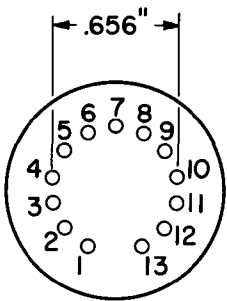
File Under

SPECIAL PURPOSE
ELECTRONIC TUBES

OUTLINE



BASE CONNECTIONS



PIN NO. 1-K0	8-K3
2-K9	9-K2
3-K8	10-K1
4-K7	11-G2
5-K6	12-G1
6-K5	13-Anode
7-K4	