

JOINT ELECTRON DEVICE ENGINEERING COUNCIL



Announcement
of
Electron Device Type Registration

E. I. A.
REGISTRATION
FILE

Release No. 3337

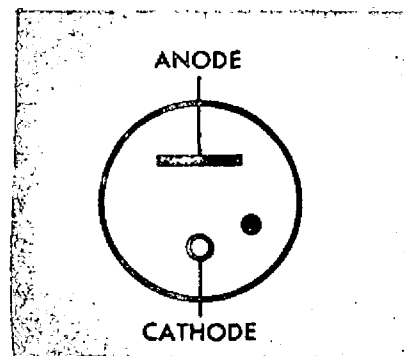
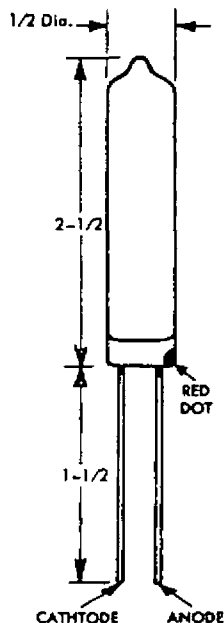
July 10, 1961

The Joint Electron Device Engineering Council announces the registration of the electron device designation

7894

according to the ratings and characteristics found on the attached data sheet and the outline shown below on the application of

The Victoreen Instrument Company
Cleveland, Ohio



JOINT ELECTRON TUBE ENGINEERING COUNCIL

J2-C1-5

Page 1

Nov. 23, 1961

Electron Tube Type

7894

The 7894 is a two electrode gas filled cold cathode tube primarily for use in voltage regulator applications.

Maximum Ratings, Absolute Values

Maximum Average Starting Current	_____	Milliamperes
Maximum Averaging Time	_____	Seconds
Maximum DC Cathode Current - Peak Pulse	<u>1.6</u>	Milliamperes
Minimum DC Cathode Current	<u>.03</u>	Milliamperes
Ambient Temperature Limits	<u>-55°C</u> to <u>+125°C</u>	Centigrade
and/or Bulb Temperature Limits		

Electrical Data, Throughout Life

	<u>Minimum</u>	<u>Bogey</u>	<u>Maximum</u>	
Anode Voltage Drop (1) at 100 ua	<u>2955</u>	<u>3000</u>	<u>3045</u>	Volts
Anode Voltage Drop (2) at 850 ua	<u>3035</u>	<u>3080</u>	<u>3125</u>	Volts
Anode Breakdown Voltage (1) in Darkness			<u>3300</u>	Volts
(2) in Light			<u>3300</u>	Volts
Regulation .03 to .85 mA		<u>85</u>	<u>95</u>	Volts
*Drift Rate at _____ hours (Note 1)				Volts/_hr.
Repeatability (Note 2)		<u>10</u>	<u>15</u>	Volts
*Voltage Jump (Constant current, _____ma)				Volts
Voltage Jump (Current varied, _____to _____ma)				Volts
Temperature Coefficient of Voltage Drop (Note 3)		<u>280</u>	<u>325</u>	mV/°C
-55°C to + 25°C Ambient		<u>170</u>		mV/°C
+25°C to +125°C Ambient		<u>110</u>		mV/°C
Warm-up Time				

Mechanical Data

Mounting Position	any
Net Weight, Maximum	.32 ounces

Outline

Format as recommended by RETMA Standard ET-105

Basing

RETMA Basing Designation _____Two lead flat press, anode marked by red dot.

Note 1: Tube operating at _____ma. of current at _____°C ambient temperature.

Note 2: Maximum change of Tube Voltage Drop, as measured after 7 days (time) of non-conduction of _____ma. of current.

Note 3: Tube operated at 100 ua.

*Primarily applicable to voltage reference types.