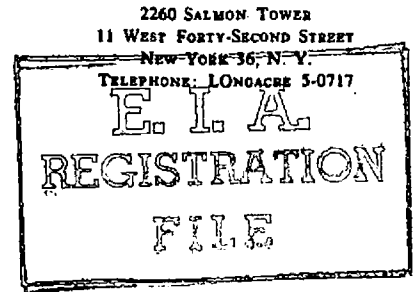


JOINT ELECTRON DEVICE ENGINEERING COUNCIL



Announcement of Electron Device Type Registration

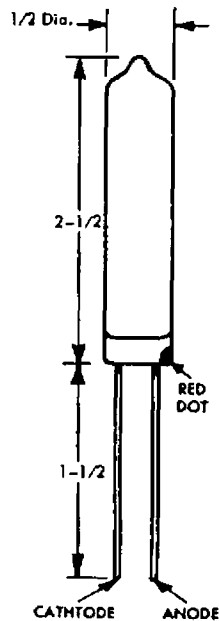
Release No. 3100

January 9, 1961

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

7859

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 3, Ohio

Electron Tube Type 7859

The 7859 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	1.10	Milliamperes
Minimum DC Cathode Current	.02	Milliamperes
Ambient Temperature Limits and/or Bulb Temperature Limits	-55°C to +125°C	Centigrade

Electrical Data, throughout life

	<u>Initial 1000 Hour Life</u>				
	<u>Min.</u>	<u>Max.</u>	<u>Min.</u>	<u>Max.</u>	
Anode Voltage Drop (1) at 100 mA	1723	1777	1700	1790	Volts
Anode Voltage Drop (2) at 700 mA	1753	1807	1730	1820	Volts
Anode Breakdown Voltage (1) in Darkness		1925			Volts
(2) in Light		1925			Volts
Regulation .02 to .70 mA		55		65	Volts
*Drift Rate at _____ hours (Note 1)					Volts
Repeatability (Note 2)		10			Volts
*Voltage Jump (Constant Current, _____ mA)					Volts
Voltage Jump (Current Varies, _____ to _____ mA)					Volts
Temperature Coefficient of Voltage Drop (Note 3)		85		105	mV/°C
-55°C to +25°C Ambient		40			mV/°C
+25°C to +125°C Ambient		45			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 lead marked by red dot.

Note 1: Tube operated at _____ ma. of current at _____°C ambient temperature.

Note 2: Maximum change of Tube Voltage Drop, as measured at 100 ua before and after a 7 day non-operational holding period.

Note 3: Tube operated at 100 ma.

*Primarily applicable to voltage reference types.