

JOINT ELECTRON TUBE ENGINEERING COUNCIL

ELECTRON TUBE TYPE - 8612

J2-C1-5
11/23/64

The 8612 is a two electrode gas filled cold cathode tube primarily for use in voltage regulator applications operating in the corona mode.

Maximum Ratings, Absolute Values

Maximum dc Cathode Current - peak pulse	900	μ a
Minimum dc Cathode Current	50	μ a
Ambient Temperature Limits and/or Bulb Temperature Limits	-65 to +125	$^{\circ}$ C

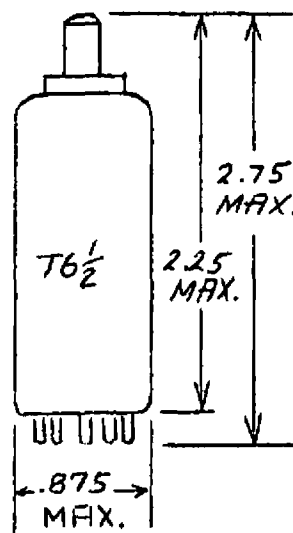
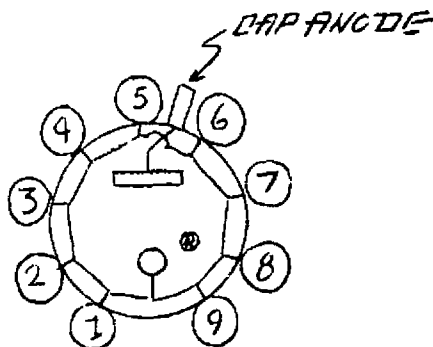
Electrical Data Throughout Life

	<u>Min.</u>	<u>Bogey</u>	<u>Max.</u>	
Anode Voltage Drop at 100 μ a	5825	6000	6175	Volts
Anode Breakdown Voltage (1) in Darkness			6600	Volts
(2) in Light			6600	Volts
Regulation 50 to 500 μ a			55	Volts
Temperature Coefficient of Voltage Drop (Note 3) -65 $^{\circ}$ C to +125 $^{\circ}$ C Ambient		475		mV/ $^{\circ}$ C
Repeatability Note 1 and 2			60	Volts

Mechanical Data

Mounting Position - any
Net Weight, Maximum - .62 oz.

Outline



E.I.A. Outline 6-7 except C1-3 Cap

Basing

Top Cap - anode, pins - cathode

- Note 1: Tube operated at 100 μ a of current at 25 $^{\circ}$ C ambient temperature.
Note 2: Maximum change of Tube Voltage Drop, as measured before and after a seven-day non-operating hold period.
Note 3: Tube operated at 100 μ a.