

AMPEREX TUBE TYPE OB2

The OB2 is a two electrode, inert gas filled, cold cathode tube for use in voltage regulator applications.

ELECTRICAL DATA

	<u>Min.</u>	<u>Nom.</u>	<u>Max.</u>	
Operating voltage (Plt. current = 17.5 ma)	106	108	111 volts	←
Anode breakdown voltage with illumination of 50-500 ft. candles.			127 volts max.	
Anode breakdown voltage in complete darkness			210 volts max.	
Regulation (Plt. current = 5-30 ma)			3.5 volts max.	←
Voltage variation during 500 hrs. operation			4 volts	←

MECHANICAL DATA

Mounting Position	any
Base (JETEC base designation)	5BO, 7 pin miniature
Max. overall length	2 5/8 inches
Max. diameter	3/4 inch

MAXIMUM RATINGS (absolute values)

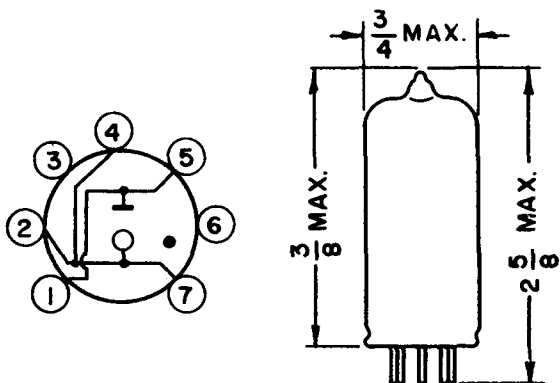
Minimum D.C. anode supply voltage ¹	133 volts
Maximum average anode starting current	75 ma
Maximum averaging time	10 seconds
Maximum D.C. cathode current	30 ma
Minimum D.C. cathode current	5 ma
Maximum frequency ²	0 cycles/sec.
Max. shunt capacitor ³	0.1 uf
Ambient temperature limits	-55° to +90°C

¹ Supply voltage necessary to insure starting throughout tube life with an illumination of 50-500 foot candles.

² Tube used so that cathode cannot become positive and anode negative.

³ In order to prevent parasitic oscillation, the value of a capacitor in parallel with the tube should be limited to 0.1 uf.

0B2



PIN NO. 1 = ANODE
 PIN NO. 2 = CATHODE
 PIN NO. 3 = INTERNALLY CONNECTED
 PIN NO. 4 = CATHODE
 PIN NO. 5 = ANODE
 PIN NO. 6 = INTERNALLY CONNECTED
 PIN NO. 7 = CATHODE

