AMPEREX TUBE TYPE OA2

The OA2 is a two electrode, inert gas filled, cold cathode tube for use in voltage regulator applications.

ELECTRICAL DATA

Operating voltage (nominal) 150 volts
Anode breakdown voltage with illumination of 50 - 500 ft. candles 180 volts max.
Anode breakdown in complete darkness 225 volts max.
Regulation (Plt. Current = 5 - 30 ma) 6 volts max.

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 \(^1\) 185 volts
Maximum average 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 \(-55^\circ\) to \(+90^\circ\) 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.
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

VOLTAGE - CURRENT CHARACTERISTIC

UPPER VOLTAGE LIMIT
LOWER VOLTAGE LIMIT

VOLTS

CURRENT - MILLIAMPERES