



6074

# VOLTAGE REGULATOR

MINIATURE GLOW-DISCHARGE TYPE

6074  
PREMIUM TYPE

*Intended for applications where very stable characteristics and dependable performance under shock and vibration are paramount. The 6074 is a "premium" version of the 0B2.*

## DATA

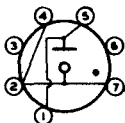
### General:

Cathode. . . . . Cold

### Mechanical:

Mounting Position. . . . . Any  
 Maximum Overall Length . . . . . 2-5/8"  
 Maximum Seated Length. . . . . 2-3/8"  
 Length, Base Seat to Bulb Top (Excluding tip). . . 2" ± 3/32"  
 Maximum Diameter . . . . . 3/4"  
 Bulb . . . . . T-5-1/2  
 Base . . . . . Small-Button Miniature 7-Pin (JETEC No.E7-1)  
 Basing Designation for BOTTOM VIEW . . . . . 5BQ

Pin 1 - Anode  
 Pin 2 - Cathode  
 Pin 3 - Internal  
 Connection-  
 Do Not Use  
 Pin 4 - Cathode



Pin 5 - Anode  
 Pin 6 - Internal  
 Connection-  
 Do Not Use  
 Pin 7 - Cathode

### Maximum Ratings, Absolute Values:

AVERAGE STARTING CURRENT (See note below)	75 max.	ma
DC CATHODE CURRENT . . . . .	{ 30 max.	ma
	{ 5 min.	ma
AMBIENT TEMPERATURE RANGE. . . . .	-55 to +90	°C
FREQUENCY. . . . .	0 max.	cps

### Characteristics Range Values for Equipment Design:

	Min.	Av.	Max.	
DC Anode-Supply Voltage. . . . .	133 <sup>▲</sup>	-	-	volts
Anode Breakdown Voltage. . . . .	-	115	133 <sup>●</sup>	volts
Anode Voltage Drop . . . . .	101 <sup>▲</sup>	108	114 <sup>●</sup>	volts
Regulation (5 to 30 ma). . . . .	-	1	4 <sup>●</sup>	volts

### Circuit Values:

Shunt Capacitor. . . . . - - 0.1 μf  
 Series Resistor. . . . . See note below

NOTE: The notes and circuit information shown under Type 0A2 are also applicable to the 6074.

▲, ●, ★: See next page.

MAY 1, 1952

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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### Shock and Vibration Tests:

These tests are made as indicated in the JAN Specifications JAN 1-A for Electron Tubes, May, 1946 under the sections as follows:

#### Section F-6b (9e) Shock Test:

Instantaneous Impact Acceleration . . . . . 900 max. g

#### Section F-6b (9f) Vibration Test:

Vibrational Acceleration. . . . . 2.5 max. g

- ▲ Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.
- Maximum individual tube value during life.
- ★ Minimum individual tube value during life.