ELECTRONIC TUBE REFERENCE

NL5720

Specialized - Thyratron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

Mercury-vapor thyratron with positive-grid characteristic, particularly useful where anode current must remain absent whenever no grid excitation is applied.

General characteristics

BASE DESIGNATION	DOWN	**BASE PINS**	—
NOMINAL HEATER	5 V / 4.5 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Thyratron

MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM CATHODE CURRENT	2.5 A

Thyratron section; published switching/rating data retained below.

NATIONAL POWER TUBE NL-5720/FG33 is a mercury vapor thyratron with a positive grid characteristic. It is especially useful in applications that require no current flow when there is no grid excitation. NL-5720/FG33 THYRATRON TUBE TECHNICAL INFORMATION do Amperes output (maximum) 2.5 Instantaneous amperes output (maximuin) 15 Maximum time of averaging anode current (seconds) 15 Maximum peak inverse volts 1000 Maximum peak forward volts 1000 Maxi

SOURCE OPERATING CONDITIONS

SOURCE PDF

1956 National Electronics Industrial Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1956 NATIONAL ELECTRONICS INDUSTRIAL TUBES

Section 1 · Thyratron

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
2.5 Amperes do	**15 Amperes Peak A**	Source technical-information table; wording preserved from datasheet.
do Amperes output (maximum)	**2.5 A**	Source technical-information table; wording preserved from datasheet.
Instantaneous amperes output (maximuin)	**15 A**	Source technical-information table; wording preserved from datasheet.
Maximum time of averaging anode current (seconds)	**15 A**	Source technical-information table; wording preserved from datasheet.
Maximum peak inverse volts	**1000 V**	Source technical-information table; wording preserved from datasheet.
Maximum peak forward volts	**1000 V**	Source technical-information table; wording preserved from datasheet.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum positive control-grid current average (one cycle averaging time) (amperes)	**250 mA**	Source technical-information table; wording preserved from datasheet.
Maximum negative control grid voltage Before conduction (volts)	**500 V**	Source technical-information table; wording preserved from datasheet.
During conduction (volts)	**10 V**	Source technical-information table; wording preserved from datasheet.
Maximum short circuit current (amperes)	**200 A**	Source technical-information table; wording preserved from datasheet.
Filament Volts	**5.0 | .25 V**	Source technical-information table; wording preserved from datasheet.
Filament currents (amps)	**4.5 ± .4 A**	Source technical-information table; wording preserved from datasheet.
Cathode heating time (seconds)	**300 s**	Source technical-information table; wording preserved from datasheet.
Critical grid current at Ep-220 V a-c (Maximum Microamperes)	**1000 A**	Source technical-information table; wording preserved from datasheet.
Anode drop at 8 amperes peak (volts)	**15 V**	Source technical-information table; wording preserved from datasheet.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Condensed mercury temperature limits (°C)	**+35 to +80 C**	Source technical-information table; wording preserved from datasheet.
No load (°C)	**26**	Source technical-information table; wording preserved from datasheet.
Full load (°C)	**37**	Source technical-information table; wording preserved from datasheet.
Net weight (ounces)	**5 oz**	Source technical-information table; wording preserved from datasheet.
Approx. shipping weight (lbs.)	**4 lb**	Source technical-information table; wording preserved from datasheet.
LIGHT FILAMENT BEFORE	**41PPLYING LOAD**	Source technical-information table; wording preserved from datasheet.
O	**2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | +20**	Source technical-information table; wording preserved from datasheet.

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to control grid capacitance (uuf)	**2.7 pF**	Source technical-information table; wording preserved from datasheet.
Control Grid to Cathode Capacitance (uuf)	**8 pF**	Source technical-information table; wording preserved from datasheet.
Ionization time (Approx. Microseconds)	**10 us**	Source technical-information table; wording preserved from datasheet.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deionization time (Approx. Microseconds)	**1000 us**	Source technical-information table; wording preserved from datasheet.

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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