



ELECTRONIC TUBE REFERENCE

NL6014

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Compact quick-heating xenon thyatron designed for timing and control applications, providing rapid starting and stable operation across a wide temperature range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	A4-10	BASE PINS	4
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM CATHODE CURRENT	1 A
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	1 A
PEAK FORWARD CURRENT	8 A
Thyatron section; published switching/rating data retained below.	

NATIONAL POWER TUBE NL-6014/CIK is a compact, quick heating thyatron designed for timing and control applications. It is xenon filled for quick starting and the ability to operate within very wide temperature limits. NATIONAL ELECTRONICS, INC. GENEVA, ILLINOIS, U. S. A. NL-6014/CIK THYRATRON TUBE TECHNICAL INFORMATION do Amperes output (utaxintunt) 1.0 instantaneous Amperes output (ma xi in urn) 8.0 Maxituunt time of averaging anode current (seconds) 4.5 Max

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
1.0 Ampere do	8.0 Amperes Peak A	Source technical-information table; wording preserved from datasheet.
do Amperes output (utaxintunt)	1 A	Source technical-information table; wording preserved from datasheet.
instantaneous Amperes output (ma xi in urn)	8 A	Source technical-information table; wording preserved from datasheet.
Maxituunt time of averaging anode current (seconds)	4.5 A	Source technical-information table; wording preserved from datasheet.
Maxim um peak inverse volts	1250 V	Source technical-information table; wording preserved from datasheet.
Maxintunt peak forward volts	1000 V	Source technical-information table; wording preserved from datasheet.
Filament volts	2.3 V	Source technical-information table; wording preserved from datasheet.
Filament amperes	6.3 ± 0.8 A	Source technical-information table; wording preserved from datasheet.
Heating time (seconds)	25 s	Source technical-information table; wording preserved from datasheet.
Maximum negative grid voltage before conduction (volts)	100 V	Source technical-information table; wording preserved from datasheet.
Maximum negative grid voltage during anode conduction (volts)	111 V	Source technical-information table; wording preserved from datasheet.
Maximum critical grid current (microamperes)	5 A	Source technical-information table; wording preserved from datasheet.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum ac short circuit current (amperes)	77 A	Source technical-information table; wording preserved from datasheet.
Ambient temperature limits (°C)	-55 to +70 C	Source technical-information table; wording preserved from datasheet.
Net weight (ounces)	3 oz	Source technical-information table; wording preserved from datasheet.
Approx. shipping weight (lbs.)	3 lb	Source technical-information table; wording preserved from datasheet.
MED. 4 PIN	0	Source technical-information table; wording preserved from datasheet.
12 -10	-0 -e -o -2 0 aP ♦♦	Source technical-information table; wording preserved from datasheet.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical arc drop at 5 amperes peak (volts)	8 V	Source technical-information table; wording preserved from datasheet.
Ionization time (approx., microseconds)	10 us	Source technical-information table; wording preserved from datasheet.
Reionization time (approx., microseconds)	300 us	Source technical-information table; wording preserved from datasheet.
Anode to grid capacitance (uuf)	1 pF	Source technical-information table; wording preserved from datasheet.



SOURCE OPERATING CONDITIONS

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1957 National Electronics

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1957 NATIONAL ELECTRONICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak forward voltage	1000 V	—
Maximum peak output current	8 A	—
Maximum dc output current	1 A	—

TUBE TINKER

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and their source documents.

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