



ELECTRONIC TUBE REFERENCE

NL604

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

National Electronics directly heated industrial power rectifier. Its massive filament provides multiampere output for heavy AC-to-DC conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 11.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	2.5 A
PEAK INVERSE VOLTAGE	900 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	10 A
FORWARD VOLTAGE DROP	10 V
WARM-UP TIME	15 s
<i>Published rectifier ratings promoted from technical-information table.</i>	

The NL604 is a National Electronics industrial rectifier tube with published DC output-current and peak-inverse-voltage ratings.



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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	900 V	Published datasheet value
Maximum DC output current	2.5 A	Published datasheet value
Maximum instantaneous output current	10 A	Published datasheet value
Maximum AC short-circuit current	150 A	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating time	15 s	Published datasheet value
Typical arc drop	10 V	At stated peak current



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 National Electronics

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1957 NATIONAL ELECTRONICS

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC output current	2.5 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum instantaneous output current	10 A	—
Maximum peak inverse voltage	900 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	15 s	—
Typical arc drop	10 V	—
Typical anode starting voltage	10 V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapor	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Industrial power rectifier	—

TUBE TINKER

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