ELECTRONIC TUBE REFERENCE

NL618

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

High-current National Electronics directly heated industrial rectifier. Its massive filament provides more than six amperes of output with very high peak-current capability.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	4
NOMINAL HEATER	2.5 V / 18 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier

MAXIMUM CATHODE CURRENT	6.4 A
PEAK INVERSE VOLTAGE	900 V
NOMINAL OUTPUT CURRENT	6.4 A
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	9 V
WARM-UP TIME	60 s

Published rectifier ratings promoted from technical-information table.

The NL618 is a National Electronics industrial rectifier tube with published DC output-current and peak-inverse-voltage ratings.

SOURCE OPERATING CONDITIONS

1956 National Electronics Industrial Tubes

SOURCE PDF

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	**6.4 A**	Published datasheet value
Maximum instantaneous output current	**40 A**	Published datasheet value
Maximum AC short-circuit current	**770 A**	Published datasheet value

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heating time	**60 s**	Published datasheet value
Typical arc drop	**9 V**	At stated peak current

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1957 National Electronics

SOURCE PDF

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

1957 NATIONAL ELECTRONICS

Section 1 · Rectifier

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum DC output current	**6.4 A**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum instantaneous output current	**40 A**	—
Maximum peak inverse voltage	**900 V**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	**60 s**	—
Typical arc drop	**9 V**	—
Typical anode starting voltage	**20 V**	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	**Xenon**	—

APPLICATION

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

Tube Tinker

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