ELECTRONIC TUBE REFERENCE

NL619

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated National Electronics industrial rectifier for high-current conversion. Rated for approximately 300 V peak inverse voltage and 6 A nominal output for low-voltage industrial DC supplies.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	2 V / 11.5 A	**PARALLEL HEATER**	_ / _
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier

MAXIMUM CATHODE CURRENT	6 A
PEAK INVERSE VOLTAGE	300 V
NOMINAL OUTPUT CURRENT	6 A
PEAK FORWARD CURRENT	20 A
FORWARD VOLTAGE DROP	10 V
WARM-UP TIME	60 s

Published rectifier ratings promoted from technical-information table.

The NL619 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	**300 V**	Published datasheet value
Maximum DC output current	**6 A**	Published datasheet value
Maximum instantaneous output current	**20 A**	Published datasheet value
Maximum AC short-circuit current	**250 A**	Published datasheet value

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heating time	**60 s**	Published datasheet value
Filament current range	**10 to 13 A**	Published range
Typical arc drop	**10 V**	At stated peak current

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1957 National Electronics

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 A**	—
Maximum instantaneous output current	**20 A**	—
Maximum peak inverse voltage	**300 V**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Filament heating time	**60 s**	—
Typical arc drop	**10 V**	—
Typical anode starting voltage	**9 V**	—

CONSTRUCTION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Filling	**Mercury vapor**	—

Tube Tinker

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