



ELECTRONIC TUBE REFERENCE

NL618L

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated NL618-series industrial rectifier for high-current supplies. Rated for approximately 900 V peak inverse voltage, 6.4 A DC output, and 40 A peak current with a low conducting drop.

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

SECTION 1 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
<i>Published rectifier ratings promoted from technical-information table.</i>	

The NL618L 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

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