



ELECTRONIC TUBE REFERENCE

NL5558

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

National Electronics indirectly heated mercury-filled industrial rectifier for substantial supplies. Its heavy heater and low arc voltage provide multiampere output with multi-kilovolt blocking capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	DOWN	BASE PINS	4
NOMINAL HEATER	5 V / 4.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	15 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	300 s
Published rectifier ratings promoted from technical-information table.	

NATIONAL POWER TUBE NL-5558/FG-32 is a sturdy rectifier tube designed especially for Industrial power rectifier applications up to 1500 volts dc. It is mercury filled for efficiency, long life, and the ability to stand high inverse voltage. NATIONAL ELECTRONICS, INC. GENEVA, ILLINOIS, U. S. A. NL-5558/FG-32 RECTIFIER TUBE TECHNICAL INFORMATION w Indirectly heated Cathode do Amperes output (maximum) 2.5 2.5 Instantaneous Amperes output (maximum) 15 15 Maximum time of averaging anode current

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
Industrial power rectifier applications up to	1500 volts dc. It is mercury filled for efficiency,	Source technical-information table; wording preserved from datasheet.
do Amperes output (maximum)	2.5 2.5 A	Source technical-information table; wording preserved from datasheet.
Instantaneous Amperes output (maximum)	15 15 A	Source technical-information table; wording preserved from datasheet.
Maximum time of averaging anode current (seconds)	15 15 A	Source technical-information table; wording preserved from datasheet.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse volts	2000 5000 V	Source technical-information table; wording preserved from datasheet.
Heater volts	5 5 V	Source technical-information table; wording preserved from datasheet.
Heater amperes	45 ± .4 4.5 ± .4 A	Source technical-information table; wording preserved from datasheet.
Cathode heating time (minutes)	5 5 min	Source technical-information table; wording preserved from datasheet.
Maximum ac short circuit current (amperes)	200 200 A	Source technical-information table; wording preserved from datasheet.
Condensed mercury temperature limits (°C)	+ 35 to + 80 + 35 to + 60 C	Source technical-information table; wording preserved from datasheet.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Approximate temperature rise, cond. mercury above ambient (°C) 28	28 C	Source technical-information table; wording preserved from datasheet.
Net weight (ounces)	4 4 oz	Source technical-information table; wording preserved from datasheet.
Approx. shipping weight (lbs.)	3 3 lb	Source technical-information table; wording preserved from datasheet.
CAP CI	5	Source technical-information table; wording preserved from datasheet.
7 'MAX	r BA5E A4-I0	Source technical-information table; wording preserved from datasheet.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical arc drop at 10 amperes peak (volts)	12 12 V	Source technical-information table; wording preserved from datasheet.
Typical Anode starting voltage (volts)	50 50 V	Source technical-information table; wording preserved from datasheet.



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1957 National Electronics

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1957 NATIONAL ELECTRONICS

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC short-circuit current	200 A	—

TUBE TINKER

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