



ELECTRONIC TUBE REFERENCE

413A

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

DIODE

Inert-gas-filled cold-cathode two-electrode tube designed for message-register, switching, pulse-counting, and control circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Diode

MAXIMUM CATHODE CURRENT	200 mA
-------------------------	--------

Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows.

Two-electrode inert-gas-filled cold-cathode tube for message-register, switching, pulse-counting, and control circuits.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward or Inverse Average Cathode Current	20 milliamperes	Forward or Inverse Average Cathode Current . . . 20 200 milliamperes
incde Voltage Dron, Forward or Inverse . +	55 volts	incde Voltage Dron, Forward or Inverse . + . . 55 €2 75 volts
Ncte	2 volts	Ncte 2: Witw 15 volts overvoltage {15 volts ebove anode breskdown voltage)
)	40 MILLIAMPERES	) 40 80 120 €0 200 ANGDE CURRENT IN MILLIAMPERES DC

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker