



ELECTRONIC TUBE REFERENCE

333A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Western Electric three-electrode cold-cathode gas-filled tube for relay, rectifier, and voltage-control service, combining heaterless switching and rectifying functions.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	10 mA
REGULATOR VOLTAGE	60 V
STARTING VOLTAGE	70 V
MAINTAINING VOLTAGE	60 V
<i>Cold-cathode main/starter-gap device; regulator fields reflect the published starter/control-gap breakdown and sustaining values.</i>	

Western Electric 333A is a three-electrode cold-cathode gas-filled tube for relay, rectifier and voltage-regulator/control service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 300s

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

2026 WESTERN ELECTRIC 300S

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum forward peak cathode current	30 mA	—
Maximum average cathode current	10 mA	—
Maximum inverse peak anode current	5 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Main-gap breakdown voltage	175 V	—
Main-gap sustaining voltage	75 V	—
Control/starter-gap breakdown voltage	70 V	—
Control/starter-gap sustaining voltage	60 V	—

TUBE TINKER

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and their source documents.

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