



ELECTRONIC TUBE REFERENCE

HK253

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-vacuum half-wave rectifier with thoriated-tungsten filament for high inverse voltage without mercury-vapor warm-up. Its heavy filament supports substantial professional power conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	15000 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	3 A
High-vacuum half-wave rectifier ratings promoted from the published electrical data.	

High-vacuum half-wave rectifier with thoriated-tungsten filament, high inverse-voltage capability, close plate spacing, and no mercury-vapor warm-up delay. The source describes Gammatron construction using tantalum electrode structures and a thoriated-tungsten filament where applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1944 Heintz and Kaufman

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

1944 HEINTZ AND KAUFMAN

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	5 V	—
Filament Current	10 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Average Plate Current	350 mA	—
Maximum Peak Inverse Voltage	15000 V	—
Maximum Peak Plate Current	3 A	—
Maximum Average Plate Current	350 mA	—

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