



ELECTRONIC TUBE REFERENCE

U45

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Marconi indirectly heated high-voltage half-wave rectifier explicitly intended for CRT RF- and flyback-derived high-voltage supplies, qualifying as a television boost/EHT rectifier.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 120 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	3 mA
PEAK FORWARD CURRENT	80 mA

The Marconi U45 is a high-voltage indirectly heated half-wave rectifier for crt rf and flyback supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	120 mA	—
Peak inverse voltage	20000 V	—
Nominal/maximum output current	3 mA	—
Peak anode current	80 mA	—
Maximum sinusoidal-input output current	0.5 mA	10-500kHz

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectifier topology	Half-wave	—