



ELECTRONIC TUBE REFERENCE

1AY2

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-voltage television flyback/EHT rectifier designed to convert horizontal-output transformer pulses into the DC accelerating supply required by the CRT.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	2
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	0.5 mA
PEAK INVERSE VOLTAGE	26000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	50 mA
FORWARD VOLTAGE DROP	75 V
<i>Primary promoted rectifier values from flyback-voltage rectifier ratings.</i>	

1AY2 is a Rectifier device. High-voltage diode/half-wave rectifier for television flyback or other high-voltage service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.25 V	Nominal
Filament Current	200 mA	Nominal
InversePlateVoltageTotalDcAndPeak	26 kV	FlybackVoltageRectifier
InversePlateVoltageDc	22 kV	FlybackVoltageRectifier
Peak Plate Current	50 mA	FlybackVoltageRectifier
Average Plate Current	0.5 mA	FlybackVoltageRectifier
FlybackPulseDutyCycle	15 %	525Line30FrameTV;NotToExceed

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Filament Capacitance	1.4 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	75 V	PlateCurrent=7mA

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	1.25 V	—
Filament/heater current	200 mA	—
Maximum total DC-plus-peak inverse voltage	—26000 V	FlybackRectifier
Maximum steady-state peak plate current	50 mA	FlybackRectifier
Maximum DC output current	0.5 mA	FlybackRectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-filament/heater capacitance	1.9 pF	Approximate