

ELECTRONIC TUBE REFERENCE

1AJ2

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	12EL	BASE PINS	12
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12EL - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	F – Filament	CONNECTED
PIN1	–	IS – Internal Screen	CONNECTED
PIN3	–	–	IC
PIN4	–	F – Filament	CONNECTED
PIN5	–	–	IC
PIN6	–	–	IC
PIN7	–	–	IC
PIN8	–	F – Filament	CONNECTED
PIN8	–	IS – Internal Screen	CONNECTED
PIN9	–	–	IC
PIN11	–	–	IC
PIN12	–	F – Filament	CONNECTED
CAP1	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 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	140 V
Primary promoted rectifier values from flyback-voltage rectifier service; DC inverse limit 22 kV retained as parameter.	

1AJ2 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
DcOutputCurrent	0.5 mA	FlybackVoltageRectifier
FlybackPulseDutyCycle	15 %	525Line30FrameTV;NotToExceed

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To All Capacitance	1.8 pF	WithoutExternalShield;Approx

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	140 V	PlateCurrent=7mA;Approx



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	1.25 V	—
Filament/heater current	200 mA	—
Maximum total DC-plus-peak inverse voltage	—30000 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	1.8 pF	Approximate

TUBE TINKER

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