

ELECTRONIC TUBE REFERENCE

33GY7

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
BEAMPOWER-DIODE

Combined high-perveance damper diode and beam-power horizontal-deflection tube, integrating television line-output amplification and sweep-energy recovery in one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12-pin Compactron	BASE PINS	12
NOMINAL HEATER	33.6 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE DISSIPATION	3.8 W
PEAK INVERSE VOLTAGE	4200 V
NOMINAL OUTPUT CURRENT	135 mA
PEAK FORWARD CURRENT	810 mA
Published promoted fields populated by semantic section ownership.	

SECTION2 Beam Power	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	4
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	155 mA
<i>Published promoted fields populated by semantic section ownership.</i>	

High-perveance damper diode and beam-power pentode for television horizontal deflection. It uses a nominal 33.6 V, 0.45 A heater. The supplied datasheet was used for ratings, characteristics, and typical operating data.



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 2 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	5000 V	Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6500 μ S	Section2



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateDissipation	3.8 W	Published datasheet value
RectifierMaximumPeakInverseVoltage	4200 V	Published datasheet value
RectifierNominalOutputCurrent	135 mA	Published datasheet value
RectifierPeakForwardCurrent	810 mA	Published datasheet value
Heater Voltage	33.6 V	Nominal heater rating
Heater Current	450 mA	Nominal heater rating

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
InterelectrodeCapacitanceDataPublished	1 boolean	See supplied datasheet capacitance table

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 2 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	10000 ohm	Published datasheet value
InterelectrodeCapacitanceDataPublished	1 boolean	See supplied datasheet capacitance table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	400 V	Published datasheet value
MaxScreenVoltage	150 V	Published datasheet value
MaxPlateDissipation	9 W	Published datasheet value
MaxScreenDissipation	3 W	Published datasheet value
MaxCathodeCurrent	155 mA	Published datasheet value
Heater Voltage	33.6 V	Nominal heater rating
Heater Current	450 mA	Nominal heater rating

TUBE TINKER

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