



ELECTRONIC TUBE REFERENCE

6AF3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Half-wave television damper rectifier for horizontal-deflection service, designed for high peak current, inverse voltage, and heater-cathode stress in sweep circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	185 mA
PEAK INVERSE VOLTAGE	4500 V
NOMINAL OUTPUT CURRENT	185 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	30 V
MAXIMUM HEATER-CATHODE VOLTAGE	4500 V
Television damper diode; 30 V average drop at 340 mA DC.	

Indirectly heated damper diode for television horizontal-frequency service and direct-drive circuits.



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
Peak Inverse Plate Voltage	4500 V	DamperService
Maximum Peak Plate Current	1.85 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	30 V	PlateCurrent=340mA



SOURCE OPERATING CONDITIONS

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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
Peak inverse plate voltage maximum	4500 V	HorizontalDamper
Plate dissipation maximum	6 W	HorizontalDamper
Heater voltage	6.3 V	Section1
Application	Horizontal-frequency damper service in television receivers	
		Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
High-voltage pulse capability	Plate and heater-cathode pulses at line frequency	DirectDrive


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	1.2 A	—
Maximum Plate Dissipation	6 W	—
Maximum Peak Inverse Voltage	4500 V	—
NominalDCOutputCurrent	185 mA	—
PeakForwardCurrent	750 mA	—
Maximum Heater Cathode Voltage	4500 V	—
Steady State Peak Plate Current	750 mA	DamperService

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	30 V	—
TypicalDCPlateCurrentForVoltageDrop	340 mA	ForwardVoltageDrop=30V

TUBE TINKER

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and their source documents.

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