

ELECTRONIC TUBE REFERENCE

50AX6G

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Heater-cathode double-diode rectifier for conventional full-wave power supplies. Its 50 V heater suits series-string equipment while the dual rectifier sections provide substantial current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	70	BASE PINS	7
NOMINAL HEATER	50 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	600 mA
FORWARD VOLTAGE DROP	21 V
Published maximum ratings, operating characteristics, rectifier/deflection data reviewed.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	600 mA
FORWARD VOLTAGE DROP	21 V
Second physical rectifier section; electrical properties populated from corresponding identical section.	

Heater-cathode double diode for conventional full-wave rectifier applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	50 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating
Tube voltage drop	21 V	At 250 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	250 mA	RectifierService
Peak inverse voltage	1250 V	RectifierService
RMS supply voltage per plate	350 V	RectifierService
Peak current per plate	600 mA	RectifierService
TV damper DC output current per plate	125 mA	TVDamperService
TV damper peak inverse voltage	2000 V	TVDamperService
TV damper peak current per plate	600 mA	TVDamperService

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	50 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating
Tube voltage drop	21 V	At 250 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	250 mA	RectifierService
Peak inverse voltage	1250 V	RectifierService
RMS supply voltage per plate	350 V	RectifierService
Peak current per plate	600 mA	RectifierService
TV damper DC output current per plate	125 mA	TVDamperService
TV damper peak inverse voltage	2000 V	TVDamperService



SOURCE DATA APPENDIX

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
SteadyStatePeakPlateCurrentPerPlate	600 mA	—
DCOutputCurrentPerPlate	125 mA	—
MaximumHeaterCathodeVoltageNegative	450 V	—
MaximumHeaterCathodeVoltagePositive	100 V	—

1961 TUNG SOL

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
SteadyStatePeakPlateCurrentPerPlate	600 mA	—
DCOutputCurrentPerPlate	125 mA	—
MaximumHeaterCathodeVoltageNegative	450 V	—
MaximumHeaterCathodeVoltagePositive	100 V	—

TUBE TINKER

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and their source documents.

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