



ELECTRONIC TUBE REFERENCE

50Y6GTG

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Twin-diode high-vacuum rectifier with two separate sections for AC/DC receiver power supplies. Its 50 V heater supports voltage-doubler, full-wave, or half-wave operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	50 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	450 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	350 V
Two electrically equivalent rectifier sections; identical-section compression applied.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	450 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	350 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

The 50Y6GT/G contains two separate rectifier sections for voltage-doubler, full-wave, or half-wave power-supply service in AC/DC receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC plate voltage RMS	235 V	—
Maximum peak inverse voltage	700 V	—
Maximum steady-state peak plate current per plate	450 mA	EachSection
Voltage-doubler AC voltage per plate	117 V	VoltageDoubler
Voltage-doubler DC output current	75 mA	VoltageDoubler
Half-wave DC output current per plate	75 mA	HalfWaveRectifier
Rectifier maximum peak inverse voltage	700 V	PromotedValue
Rectifier nominal output current	75 mA	PromotedValue
Rectifier peak forward current	450 mA	PromotedValue
Rectifier maximum heater-cathode voltage	350 V	PromotedValue

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 150 mA per plate	22 V	EachSection
Rectifier forward voltage drop	22 V	PromotedValue

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Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC plate voltage RMS	235 V	—
Maximum AC plate voltage RMS	235 V	—
Maximum peak inverse voltage	700 V	—
Maximum peak inverse voltage	700 V	—
Maximum steady-state peak plate current per plate	450 mA	EachSection
Maximum steady-state peak plate current per plate	450 mA	EachSection
Voltage-doubler AC voltage per plate	117 V	VoltageDoubler
Voltage-doubler AC voltage per plate	117 V	VoltageDoubler
Voltage-doubler DC output current	75 mA	VoltageDoubler
Voltage-doubler DC output current	75 mA	VoltageDoubler
Half-wave DC output current per plate	75 mA	HalfWaveRectifier
Rectifier maximum peak inverse voltage	700 V	PromotedValue
Rectifier nominal output current	75 mA	PromotedValue
Rectifier peak forward current	450 mA	PromotedValue
Rectifier maximum heater-cathode voltage	350 V	PromotedValue

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 150 mA per plate	22 V	EachSection
Tube voltage drop at 150 mA per plate	22 V	EachSection
Rectifier forward voltage drop	22 V	PromotedValue



TUBE TINKER

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and their source documents.

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