



ELECTRONIC TUBE REFERENCE

5867A

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Rugged heavy-duty transmitting triode for Class C RF and specialized high-voltage service. Rated for 350 W plate dissipation, with published operation producing roughly 1.1 kW RF output from a 3.5 kV plate supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 14.7 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	350 W
MAXIMUM GRID DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	400 mA
<i>Promoted from printed maximum ratings and general characteristics.</i>	

5867A is listed in the supplied Amperex material as a rugged heavy-duty HF triode. Published ratings and characteristics were captured from the supplied table.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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Grid-Plate - - - - -	6.2 pF	—
- - 50 6.2 uuf		

Grid-Filament - - - - -	8 pF	—
- - - 65 8.0 uuf		

Plate-Filament - - - - -	0.5 pF	—
- - - 0.5 uuf		



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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Published classification	rugged heavy-duty HF triode	Amperex power-tube description
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1975 Eimac Tube Manual

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

1975 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Current Range	13.5 A–14.7 A	—
Transconductance	0.005 A/V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	6.2 pF	—
Grid-Filament Capacitance	8 pF	—
Plate-Filament Capacitance	0.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Full Rating Maximum	50 MHz	—
Class-C Plate Voltage Maximum	3800 V	ClassC
Class-C Plate Current Maximum	360 mA	ClassC
Class-C Plate Input Maximum	1500 W	ClassC
Typical Plate Voltage	3500 V	ClassC
Typical Plate Current	325 mA	ClassC
Typical Plate Output	1100 W	ClassC
Self-Rectified RMS Plate Voltage Maximum	4500 V	SelfRectified
Self-Rectified Plate Input Maximum	900 W	SelfRectified



1976 Eimac Tube Manual

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

1976 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Current Range	13.5 A–14.7 A	—
Transconductance	0.005 A/V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	6.2 pF	—
Grid-Filament Capacitance	8 pF	—
Plate-Filament Capacitance	0.5 pF	—

OTHER		
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Frequency Full Rating Maximum	50 MHz	—
Class-C Plate Voltage Maximum	3800 V	ClassC
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Class-C Plate Input Maximum	1500 W	ClassC
Typical Plate Voltage	3500 V	ClassC
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Typical Plate Output	1100 W	ClassC
Self-Rectified RMS Plate Voltage Maximum	4500 V	SelfRectified
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