ELECTRONIC TUBE REFERENCE

TH63A

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Ceramic-metal industrial power triode electrically equivalent to the TH63, with a welded star grid flange. Approximately 10 kW plate dissipation and 10 kV capability support high-power dielectric-heating oscillators.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	7.5 V / 100 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM GRID DISSIPATION	250 W
MAXIMUM CATHODE CURRENT	4 A

Section values promoted from published characteristics and maximum ratings.

TH6-3A version of the high-performance ceramic/metal industrial power triode, electrically identical to TH6-3 and fitted with a welded star grid flange.

SOURCE OPERATING CONDITIONS

199X Svetlana

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

199X SVETLANA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Svetlana TH6-3 and TH6	**-3 A**	SourcePage1-2
T he SvetlanaTM TH6-3 and TH6	**-3 A**	SourcePage1-2
The TH6-3 and the TH6	**-3 A**	SourcePage1-2
the TH6-3 and TH6	**-3 A**	SourcePage1-2
The Svetlana TH6-3 and the TH6	**-3 A**	SourcePage1-2
Voltage 7.5 ±	**0.37 V**	SourcePage1-2
Current @	**7.5 V**	SourcePage1-2
Input	**53 pF**	SourcePage1-2
Output	**1.5 pF**	SourcePage1-2
Feedback	**34 pF**	SourcePage1-2

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum-signal DC plate current	**4 A**	SourcePage1-2
Plate Dissipation	**10000 W**	SourcePage1-2
Grid Dissipation	**250 W**	SourcePage1-2
DC plate voltage 7000	**9000 V**	TypicalOperation
Plate current 4.0	**4 A**	TypicalOperation
DC grid voltage -620	**-930 V**	TypicalOperation
DC grid current* 0.275	**430 mA**	TypicalOperation
Peak cathode RF voltage* 370	**390 V**	TypicalOperation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Driving power* 260	**570 W**	TypicalOperation
Plate Power output 19	**29000 W**	TypicalOperation
Svetlana TH6-3 and TH6	**-3 A**	TypicalOperation
Svetlana TH6-3 & TH6	**-3 A**	TypicalOperation
TH6	**-3 A**	TypicalOperation
Except for star flange, dimensions of TH6	**-3 A**	TypicalOperation

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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