



ELECTRONIC TUBE REFERENCE

18FY6A

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode high-mu triode combining radio detection, control-voltage rectification, and audio voltage amplification in compact receiving equipment. The paired diodes handle signal and AVC functions while the triode supplies subsequent gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	18 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Published ratings and characteristics promoted semantically from the approved source.

SECTION2 Diode

No fixed ratings recorded.

Second detector diode section; maximum continuous plate current 1 mA.

SECTION3 Triode	
PLATE RESISTANCE	77000 Ω
TRANSCONDUCTANCE	0.0013 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	0.5 W
<i>Published ratings and characteristics promoted semantically from the approved source.</i>	

The 18FY6A combines a high-mu triode with two detector diodes for compact receiver service and is electrically equivalent to the 18FY6 except for heater characteristics.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Diode Plate Current	1 mA	Each diode

1950 SYLVANIA

Section 3 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	77000 ohm	—
Amplification Factor	100	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Plate Voltage	100 V	—



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 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Diode Current	2 mA	EachDiode;10VApplied

1961 TUNG SOL

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	ClassA
Heater Warmup Time	20 s	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	0.6 mA	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum diode plate current	1 mA	WholeTube
Average diode current with 10 V applied	2 mA	Section2

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum diode plate current	1 mA	WholeTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average diode current with 10 V applied	2 mA	Section3

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 3 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode grid-to-plate capacitance	1.8 pF	WholeTube
Triode input capacitance	2.4 pF	WholeTube
Grid-to-diode plate capacitance maximum	0.2 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum triode plate voltage	150 V	WholeTube
Maximum triode plate dissipation	0.5 W	WholeTube
Triode grid voltage	-1 V	TypicalOperation
Triode plate current	0.8 mA	TypicalOperation
Triode transconductance	1300 μ S	TypicalOperation
Triode plate resistance	77000 ohm	TypicalOperation
Triode amplification factor	100	TypicalOperation

TUBE TINKER

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