

ELECTRONIC TUBE REFERENCE

5869

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Radiation-cooled mercury-vapor thyatron for stepless voltage-output and DC motor control. Grid triggering regulates substantial industrial power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 6.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM CATHODE CURRENT	1 A
PEAK INVERSE VOLTAGE	13000 V
NOMINAL OUTPUT CURRENT	1 A
PEAK FORWARD CURRENT	4 A
FORWARD VOLTAGE DROP	15 V
Published ratings and characteristics mapped semantically from the source.	

Radiation-cooled mercury-vapor thyatron for stepless voltage-output and DC motor control.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Condensed mercury temperature minimum	25 degC	Published source value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deionization time, approximate	250 us	Published source value
Ionization time, approximate	10 us	Published source value



SOURCE OPERATING CONDITIONS

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1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	5 V	Section1
Heater or filament current	6.5 A	Section1
Peak forward voltage maximum	13000 V	Thyatron
Peak inverse voltage maximum	13000 V	Thyatron
Peak anode current maximum	4 A	Thyatron

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average anode current maximum	1 A	Thyratron
Maximum grid voltage	-100 V	Thyratron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	120 s	Thyratron
Tube voltage drop	15 V	Thyratron
Ionization time	10 μ s	Thyratron
Deionization time	250 μ s	Thyratron



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 · Thyratron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	5 V	Section1
Heater or filament current	6.5 A	Section1
Peak forward voltage maximum	13000 V	Thyratron
Peak inverse voltage maximum	13000 V	Thyratron
Peak anode current maximum	4 A	Thyratron
Average anode current maximum	1 A	Thyratron
Maximum grid voltage	-100 V	Thyratron
Recommended temperature range	+25 to +55 °C	Thyratron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	120 s	Thyratron

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	15 V	Thyratron
Ionization time	10 μ s	Thyratron
Deionization time	250 μ s	Thyratron

TUBE TINKER

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and their source documents.

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