



ELECTRONIC TUBE REFERENCE

5545

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Grid-controlled gas thyatron documented by Amperex for controlled switching and power-conduction service, with published ratings and operating characteristics for industrial circuitry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 21 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron

No fixed ratings recorded.

Values transcribed from the approved datasheet; additional published data retained as parameters.

5545 is listed in the supplied Amperex material as a grid-controlled gas thyatron. Published ratings and operating characteristics were captured from the supplied table.



SOURCE OPERATING CONDITIONS

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to control grid	0.8 pF	Published direct interelectrode capacitance
Control grid to cathode	45 pF	Published direct interelectrode capacitance
Heater/filament nominal current	21 A	Nominal published value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	60 s	—
Tube drop	16 V	Conducting
Deionization time	500 us	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage	1500 V	—
Peak inverse anode voltage	1500 V	—
Peak anode current	80 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average anode current	6.1 A	—
Maximum grid voltage	-250 V	—



SOURCE DATA APPENDIX

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 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.5 V	ThyatronService
Filament current	21 A	ThyatronService
Filament heating time	60 s	ThyatronService
Tube voltage drop	16 V	ThyatronService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak forward voltage	1500 V	ThyatronService
Maximum peak inverse voltage	1500 V	ThyatronService
Maximum peak anode current	80 A	ThyatronService
Maximum average anode current	6.4 A	ThyatronService
Maximum grid voltage	-250 V	ThyatronService

TUBE TINKER

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