



ELECTRONIC TUBE REFERENCE

8270

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Gas-filled grid-controlled thyatron for industrial switching, controlled rectification, relay, motor-control, or pulse service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	5 V / 13 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM CATHODE CURRENT	2.5 A
PEAK INVERSE VOLTAGE	21000 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	10 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	90 s
<i>Special-purpose section represented as Other under canonical SectionType vocabulary.</i>	

Grid-controlled mercury-vapor thyatron for high-voltage industrial switching service.



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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode To Grid Capacitance	4 pF	Published direct interelectrode capacitance
Grid To Cathode Capacitance	13 pF	Published direct interelectrode capacitance

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Anode Voltage Inverse	21 kV	Published source value
Average Anode Current	2.5 A	Published source value

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	12 V	Published source value



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 heating time	90 s	MercuryVaporThyatron
Tube voltage drop	12 V	MercuryVaporThyatron

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	10 μs	MercuryVaporThyratron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward voltage maximum	21000 V	MercuryVaporThyratron
Peak inverse voltage maximum	21000 V	MercuryVaporThyratron
Peak anode current maximum	10 A	MercuryVaporThyratron
Average anode current maximum	2.5 A	MercuryVaporThyratron
Maximum grid voltage	-300 V	MercuryVaporThyratron
Recommended mercury temperature range	+25 to +45 °C	MercuryVaporThyratron

TUBE TINKER

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