ELECTRONIC TUBE REFERENCE

323B

Specialized - Thyratron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

Gas-filled grid-controlled thyratron for switching, controlled-rectifier, relay, motor-control, oscillator, or pulse service as documented by the manufacturer.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	5
NOMINAL HEATER	2.5 V / 5 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Thyratron

PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	1500 A
PEAK FORWARD CURRENT	6000 A
FORWARD VOLTAGE DROP	10 V
WARM-UP TIME	15 s

Published promoted fields populated from Maximum Ratings / Characteristics / Typical Operation headings.

The 323B is a directly heated three-electrode argon and mercury-vapor thyratron with negative-control characteristics, designed for grid-controlled rectifier, motor-control and relay applications; argon improves starting at low temperature.

SOURCE OPERATING CONDITIONS

1961 Tung Sol

SOURCE PDF

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

1961 TUNG SOL

Section 1 · Thyratron

CONSTRUCTION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Filling	**Argon and mercury vapor**	—

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Application	**Grid-controlled rectifier, motor control, relay**	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1966 Tung Sol Electronic Tubes 3 of 4

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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 · Thyratron

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Anode-to-control-grid capacitance	**7.8 pF**	WholeTube
Recommended operating temperature range	**40–80 °C**	WholeTube

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Minimum cathode heating time	**15 s**	Characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
De-ionization time	**360 µs**	Anode120V AnodeCurrent1.5A Grid20V GridResistor10000ohm
De-ionization time	**60 µs**	Anode120V AnodeCurrent1.5A GridMinus500V GridResistor100000ohm
Initial anode voltage drop	**10 V**	Characteristic
End-of-life anode voltage drop	**20 V**	Characteristic
Peak forward anode voltage	**1250 V**	WholeTube
Peak reverse anode voltage	**1250 V**	WholeTube
Peak anode current	**6 A**	WholeTube
Average anode current	**1.5 A**	WholeTube
Fault current for 0.1 second maximum	**120 A**	WholeTube
Maximum operating frequency	**420 cycles/s**	WholeTube

Tube Tinker

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