

ELECTRONIC TUBE REFERENCE

21B12

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated inert-gas thyatron for welding and motor-control service. Controlled gas discharge switches substantial industrial currents.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 9 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM CATHODE CURRENT	2.5 A
PEAK INVERSE VOLTAGE	1250 V
FORWARD VOLTAGE DROP	12 V
REDO promoted-field audit	

Directly heated inert-gas-filled thyatron for welding or motor control.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Triode

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Gas	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control ratio	200:1	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ambient temperature range	-55 to +75 C	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 AEI Industrial Valves

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

1961 AEI INDUSTRIAL VALVES

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak forward anode voltage	10 kV	—
Maximum peak inverse anode voltage	1.25 kV	—
Maximum peak cathode current	30 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum surge cathode current	300 A	—
Voltage drop	12 V	—
Ionisation time	10 us	—
Deionisation time	1000 us	—
Anode-grid capacitance	3.8 pF	—
Grid-filament capacitance	2.5 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Associated Electrical Industries

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1961 ASSOCIATED ELECTRICAL INDUSTRIES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak forward anode voltage	10 kV	—
Maximum peak inverse anode voltage	1.25 kV	—
Maximum peak cathode current	30 A	—
Maximum surge cathode current	300 A	—

TUBE TINKER

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