

ELECTRONIC TUBE REFERENCE

21N12

Specialized - Thyratron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Mercury-vapor thyratron for power supplies and welding equipment. Grid-controlled mercury discharge provides low-drop switching of substantial industrial current.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
MAXIMUM CATHODE CURRENT	3 A
PEAK INVERSE VOLTAGE	10000 V
FORWARD VOLTAGE DROP	18 V
REDO promoted-field audit	

Mercury-vapour thyratron for power supplies and welding equipment.



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	Mercury vapour	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum surge cathode current	250 A	0.1 s
Maximum supply frequency	150 Hz	—



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	10 kV	—
Maximum surge peak inverse voltage	20 kV	—
Maximum peak cathode current	25 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum surge cathode current	250 A	—
Maximum anode voltage drop	18 V	—
Maximum supply frequency	150 Hz	—
Minimum preheat time	3 min	—
Ionisation time	10 us	—
Deionisation time	1000 us	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Associated Electrical Industries

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

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	10 kV	—
Maximum surge peak inverse voltage	20 kV	—
Maximum peak cathode current	25 A	—

TUBE TINKER

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