



ELECTRONIC TUBE REFERENCE

7319

Specialized - Thyratron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Grid-controlled xenon rectifier tube for industrial power conversion. Trigger-grid action controls substantial low-drop gas-discharge current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	A4-10	BASE PINS	4
NOMINAL HEATER	2.5 V / 6.3 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	1 A
PEAK INVERSE VOLTAGE	2000 V
NOMINAL OUTPUT CURRENT	1 A
PEAK FORWARD CURRENT	8 A
FORWARD VOLTAGE DROP	8 V
<i>Grid-controlled xenon rectifier section.</i>	

7319 is a grid-control xenon rectifier tube using tantalum anode and xenon gas filling. The datasheet publishes filament, anode-current, inverse-voltage, arc-drop and operating ratings.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1942 Electronics Inc

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

1942 ELECTRONICS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-c. Meter Value - Continuous	1 A	—
Oscillograph Peak - Continuously Recurring	8 A	—
Peak Inverse Voltage	2000 V	—
Filament Voltage	2.5 V	—
Filament Current	6.3 A	—
Peak Forward Voltage	2000 V	—
Heating Time Minimum	25 s	—
Maximum Negative Grid Voltage	100 V	—
Maximum Short Circuit Current	77 A	—
Maximum Commutation Factor	0.04 V/us x A/us	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Arc Drop	8 V	—
Grid-Filament Capacitance	10 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#)
 [Tube types](#)
 [Full books](#)
 [Blog](#)
 [Feedback & corrections](#)

