



ELECTRONIC TUBE REFERENCE

ELC16J

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Xenon-filled grid-controlled rectifier thyatron with tantalum anode construction for controlled power conversion and switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.5 V / 31 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM CATHODE CURRENT	16 A
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	16 A
PEAK FORWARD CURRENT	160 A
FORWARD VOLTAGE DROP	11 V
Grid-controlled xenon rectifier (thyatron).	

ELC16J 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 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-c. Meter Value - Continuous	16 A	—
Oscillograph Peak - Continuously Recurring	160 A	—
Peak Inverse Voltage	1250 V	—
Filament Voltage	2.5 V	—
Filament Current	31 A	—
Peak Forward Voltage	1000 V	—
Heating Time Minimum	60 s	—
Maximum Negative Grid Voltage	100 V	—
Maximum Short Circuit Current	1000 A	—
Maximum Commutation Factor	0.66 V/us x A/us	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Arc Drop	11 V	—
Grid-Filament Capacitance	29 pF	—



1958 Electronics Inc

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

1958 ELECTRONICS INC
Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	16 A	—
Overload anode current	24 A	LessThan3Seconds
Continuously recurring peak anode current	160 A	—
Peak inverse voltage	1250 V	—
Peak forward voltage	1000 V	—
Maximum negative grid voltage	100 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	60 s	—
Average arc drop, average tube	11 V	—
Average arc drop, highest/end-of-life tube	14 V	—
Critical grid current maximum	10 uA	—
Deionization time maximum	1000 us	—
Filament current tolerance	3 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas filling	Xenon	—
Anode material	Tantalum	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacitance	8 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-filament capacitance	29 pF	—

TUBE TINKER

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and their source documents.

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