ELECTRONIC TUBE REFERENCE

ELC6H3

Specialized - Thyratron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

ELC6H3 is a directly heated xenon-filled grid-controlled rectifier thyratron for heavy industrial power control. Its tantalum-anode construction and massive filament support substantial controlled gas-discharge current.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	2.5 V / 21 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Thyratron

MAXIMUM CATHODE CURRENT	6.4 A

Grid-controlled xenon rectifier (thyratron).

ELC6H3 xenon-filled grid-controlled rectifier (thyratron) with tantalum anode construction.

SOURCE OPERATING CONDITIONS

1958 Electrons Inc

SOURCE PDF

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

1958 ELECTRONS INC

Section 1 · Thyratron

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	**6.4 A**	—
Overload anode current	**12.8 A**	LessThan3Seconds
Continuously recurring peak anode current	**80 A**	—
Peak inverse voltage	**1700 V**	—
Peak forward voltage	**1700 V**	—
Maximum negative grid voltage	**100 V**	—

CONSTRUCTION

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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacitance	**5 pF**	—
Grid-filament capacitance	**21 pF**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Critical grid current maximum	**20 uA**	—
Deionization time maximum	**1000 us**	—
Filament current tolerance	**2 A**	—

Tube Tinker

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

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