

ELECTRONIC TUBE REFERENCE

ELC4H3

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

ELC4H3 is a directly heated xenon-filled grid-controlled rectifier thyatron 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 / 17 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM CATHODE CURRENT	4 A
Grid-controlled xenon rectifier (thyatron).	

ELC4H3 xenon-filled grid-controlled rectifier (thyatron) with tantalum anode construction.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	4 A	—
Overload anode current	8 A	LessThan3Seconds
Continuously recurring peak anode current	50 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	—