

ELECTRONIC TUBE REFERENCE

IC21

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

Cold-cathode glow-discharge gas triode for relay-control service, using grid-controlled breakdown for heaterless switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	G4V	BASE PINS	6
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	Thyratron
MAXIMUM CATHODE CURRENT	100 mA
Published ratings and characteristics promoted from approved datasheet.	

RCA IC21 is a cold-cathode glow-discharge gas triode used as a relay-control tube, with separate grid and anode breakdown characteristics and a 100-mA peak cathode-current rating.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak anode breakdown voltage with grid tied to cathode	180— V	—
Peak positive grid breakdown voltage	66–80 V	—
DC anode extinction voltage	73 V	—
Grid current for transition to anode	—50 μ A	—
Anode voltage drop	73 V	—
Grid voltage drop	55 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak cathode current	100 mA	—
DC cathode current	25 mA	—
DC anode supply voltage	125–145 V	Typical relay operation
Peak positive grid-bias voltage	66 V	Typical relay operation
Peak grid-signal voltage	40— V	—
Minimum sum of grid-bias and grid-signal voltages	100— V	—
DC grid current	100 μ A	—