



ELECTRONIC TUBE REFERENCE

6587

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Ruggedized hydrogen thyatron designed for multi-megawatt pulse network-discharge service, providing rapid high-current switching for demanding pulsed-power systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 10.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	16000 V
Thyatron pulse ratings promoted where semantically compatible; trigger, delay, jitter, reservoir and current-rate data retained as parameters.	

The ITT/Kuthe 6587 is a ruggedized hydrogen thyatron for multi-megawatt pulse network-discharge service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Peak forward anode voltage	16000 V	Pulse
Peak inverse anode voltage	16000 V	Pulse
Peak cathode current	325 A	Pulse
Average cathode current	225 mA	Pulse
RMS cathode current	6.3 A	Pulse
Current rate of rise	1500 A/us	Pulse

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode heating time	3 min	-50 C

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	9.6 A–11.6 A	—
Heater voltage nominal	6.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time	3 min	—
Maximum peak forward anode voltage	16000 V	—
Maximum peak inverse anode voltage	16000 V	—
Maximum peak anode current	325 A	—
Maximum average anode current	225 mA	—
Maximum RMS anode current	6.3 A	—
Maximum anode current rate of rise	1500 A/us	—
Maximum peak inverse trigger voltage	200 V	—
Maximum anode delay time	0.6 us	—
Maximum anode delay-time drift	0.1 us	—
Initial maximum time jitter	0.005 us	—

TUBE TINKER

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