

ELECTRONIC TUBE REFERENCE

FG57

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Industrial thyatron for controlled switching and rectification. Available source material confirms the thyatron role without a narrower gas classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	5 V / 4.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION0 Thyatron	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM CATHODE CURRENT	2.5 A
Thyatron. Forward peak anode maximum and average anode current promoted.	

The FG57 is a National Electronics thyatron intended for control, timing, ignitor-firing, or related industrial switching service, with published peak-voltage and current ratings.

SOURCE OPERATING CONDITIONS

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 0 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid	3.5 pF	Published direct interelectrode capacitance
Grid to cathode	8.5 pF	Published direct interelectrode capacitance
Heater/filament nominal current	4.5 A	Nominal published value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 National Electronics Industrial Tubes

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

1956 NATIONAL ELECTRONICS INDUSTRIAL TUBES

Section 0 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	1000 V	Published datasheet value
Maximum peak forward voltage	1000 V	Published datasheet value
Maximum DC output current	2.5 A	Published datasheet value
Maximum instantaneous output current	15 A	Published datasheet value
Maximum AC short-circuit current	200 A	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating time	300 s	Published datasheet value
Typical arc drop	12 V	At stated peak current
Ionization time	10 us	Approximate
Deionization time	1000 us	Approximate
Anode-grid capacitance	2.5 pF	Published capacitance



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO Section 0 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Anode Voltage	1000 V	—
Instantaneous Anode Current	15 A	25CyclesAndAbove
Surge Anode Current	200 A	DesignOnly

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Voltage Drop	16 V	Typical

TUBE TINKER

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