



ELECTRONIC TUBE REFERENCE

5828

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Victoreen 5828 directly heated 1.25 V 10 mA subminiature medium-mu triode for portable Geiger counters, DC amplification and pulse-shaping circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.25 V / 10 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0004 S
AMPLIFICATION FACTOR	16
MAXIMUM CATHODE CURRENT	0.75 mA
Victoreen Instrument Co 5828, RMA Release #750 Apr 22 1949, March 1949 datasheet. Directly heated low-filament-power subminiature medium-mu triode intended for portable Geiger counters, cathode-follower preamplifiers, multivibrator pulse shaping and DC amplifiers; suggested replacement for VX-U1A high-mu triode connection. Filament nominal 1.25 V 10 mA, allowed 1.1–1.5 V, filament resistance 112–137 Ω (nominal 125 Ω). Max total cathode current 750 μA. At filament 1.25 V, plate 50 V, grid -0.5 V, plate current 400–700 μA; at grid -4.5 V, plate current ≤ 1 μA. Minimum transconductance 400 μmhos = 0.0004 A/V under specified 50 V/-0.5 V conditions; amplification factor minimum 16, maximum 19. The 50 V plate value is a test operating point, not published max plate voltage. No conventional plate resistance or max plate dissipation stated. Four flexible leads with red identification dot, filament polarity and grid/plate connections shown in source diagram.	

Subminiature medium-mu triode intended for input-stage grid-current amplifiers and low-voltage multivibrator or pulse-shaping circuits.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Victoreen

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

1950 VICTOREEN

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.1–1.5 V	—
Filament Current	10 mA	Nominal
Transconductance	400 umho	—
Amplification Factor	16–19	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Cathode Current	750 uA	—
Plate Current	—700 uA	—

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