



ELECTRONIC TUBE REFERENCE

6167

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

COUNTERSELECTORSWITCH

Ten-stage cold-cathode gas-discharge stepping tube for pulse counting and registration. Sequential discharge transfer advances the count electronically between stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BW	BASE PINS	9
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 CounterSelectorSwitch	
MAXIMUM CATHODE CURRENT	10 mA
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	450 mA
<i>Special cold-cathode gas-discharge stepping tube; ordinary triode/pentode promoted fields do not apply. Published discharge ratings are preserved in parameter rows.</i>	

The 6167 is a ten-stage cold-cathode gas-discharge stepping tube for continuous counting or registration of pulses at rates up to 1000 pulses per second, with output connections for each stage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · CounterSelectorSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	125 mA	HalfWave
Peak inverse voltage	1000 V	HalfWave
RMS supply voltage	350 V	HalfWave
Peak current	450 mA	HalfWave



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric Other

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

2026 WESTERN ELECTRIC OTHER

Section 1 · CounterSelectorSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Current Maximum Peak	10 mA	Absolute value
Cathode Current Maximum Average	3 mA	Absolute value
Cathode Current Minimum Average	0.1 mA	Operating limit
Maximum Averaging Time	0.5 s	Absolute value
Maximum Inverse Anode or Auxiliary Anode Current	0 mA	Absolute value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ambient Temperature	-55–60 degC	Published limits; OCR sign on upper limit visually interpreted as +60

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage Drop	110 V	Bogey
Anode Breakdown Voltage	180–300 V	Output cathodes and normal cathode; bogey 225 V
Stepping Cathode Breakdown Voltage	150–250 V	B1-B10; bogey 190 V
Auxiliary Anode Voltage Drop to K10	112 V	Bogey
Auxiliary Anode Breakdown Voltage	260–300 V	Published range
Auxiliary Anode Transfer Voltage to Other Cathodes	260–290 V	Any cathode except K10
Cathode Forward Transfer Voltage	10–20 V	With respect to operating cathode
Transfer Voltage Between Adjacent Output Cathodes	-15 V	Static condition
Transfer Voltage Between Normal Cathode and Output Cathodes	-30 V	Published value

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Counting Rate Maximum	1000 pulses/s	Continuous counting or registration

TUBE TINKER

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