



ELECTRONIC TUBE REFERENCE

7178

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

DIODE

Hydrogen-filled high-current diode designed as a pulse-transformer backswing clipper in high-power pulse circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 14 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Diode	
MAXIMUM PLATE VOLTAGE	30000 V
MAXIMUM CATHODE CURRENT	500 mA
PEAK INVERSE VOLTAGE	30000 V
NOMINAL OUTPUT CURRENT	500 mA
PEAK FORWARD CURRENT	500 A
<i>Pulse clipping diode; inverse-voltage and current limits retained.</i>	

Hydrogen-filled high-current diode for pulse-transformer backswing clipper applications.

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 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4.7–5.3 V	—
Heater current	14 A–24 A	—
Reservoir current	2 A–5 A	—
Reservoir voltage	4.7–5.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time	10 min	—
Maximum transient inverse anode voltage	30000 V	—
Maximum operating inverse anode voltage	16000 V	—
Minimum anode voltage	500 V	—
Maximum peak anode current	500 A	—
Maximum average anode current	500 mA	—
Maximum RMS anode current	15 A	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	5 V	—
Heater Current	14 A	—
ReservoirVoltage	5 V	—
ReservoirCurrentMinimum	2 A	—
ReservoirCurrentMaximum	5 A	—
MinimumHeatingTime	10 min	—
Minimum Anode Voltage	500 V	—
DeviceGas	Hydrogen	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageTransientMaximum	30 kV	—
PeakInverseVoltageOperatingMaximum	16 kV	—
PeakAnodeCurrentMaximum	500 A	—
RMSAnodeCurrentMaximum	15 A	—

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