



ELECTRONIC TUBE REFERENCE

4017B

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated hot-cathode mercury-vapor half-wave rectifier with oxide-coated shielded filament. Rated for approximately 7 kV peak inverse voltage and 1.5 A peak anode current, with a specified warm-up delay.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.7 V / 8.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	7000 V
PEAK FORWARD CURRENT	1.5 A
WARM-UP TIME	30 s
<i>Published ratings and characteristics promoted where applicable; additional published data retained as parameters.</i>	

Standard Valves 4017-B is a half-wave, hot-cathode mercury-vapour rectifier using an oxide-coated shielded filament. The sheet specifies 7,000 V maximum peak inverse voltage, 1.5 A maximum peak anode current, a 30-second time delay, and circuit examples up to 6,000 V load potential.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

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

1937 STANDARD VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating Period After Transport	15 min	Published specification
Recommended Ambient Temperature	10–50 degC	Published specification
Heating Time At Ambient 15C Or Above	30 s	Published specification
Heating Time At Ambient 10C To 15C	5 min	Published specification
Load Potential	2500 V	TypicalOperatingConditions; Circuit=2; NumberOfValves=2
Load Current	900 mA	TypicalOperatingConditions; Circuit=2; NumberOfValves=2
Load Potential	5000 V	TypicalOperatingConditions; Circuit=3; NumberOfValves=4
Load Current	900 mA	TypicalOperatingConditions; Circuit=3; NumberOfValves=4
Load Potential	3000 V	TypicalOperatingConditions; Circuit=4; NumberOfValves=3
Load Current	1.2 A	TypicalOperatingConditions; Circuit=4; NumberOfValves=3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Load Potential	3000 V	TypicalOperatingConditions; Circuit=5; NumberOfValves=6
Load Current	2.4 A	TypicalOperatingConditions; Circuit=5; NumberOfValves=6
Load Potential	6000 V	TypicalOperatingConditions; Circuit=6; NumberOfValves=6
Load Current	1.5 A	TypicalOperatingConditions; Circuit=6; NumberOfValves=6
Output Connection Requirement	Connect output circuit to midpoint of filament transformer	Published specification



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	7000 V	—
Maximum peak anode current	1.5 A	—