

ELECTRONIC TUBE REFERENCE

6693

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Single-anode mercury-vapor half-wave rectifier with separate high-current and high-voltage ratings. Its heavy filament and low arc drop support multiampere industrial power conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	5 V / 11.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	15000 V
NOMINAL OUTPUT CURRENT	3 A
PEAK FORWARD CURRENT	12 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	60 s
Published maximum ratings and general characteristics promoted from the supplied datasheet.	

Single-anode mercury-vapor rectifier with separate high-current and high-voltage rating sets, up to 15 kV peak inverse voltage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	5 V	—
Heater/Filament Current	11.5 A	—
Maximum Peak Inverse Voltage	25000 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	2500 V	HighCurrent
Peak anode current	10 A	HighCurrent
Average anode current	5 A	HighCurrent
Overload current	200 A	HighCurrent
Peak inverse voltage	15000 V	HighVoltage
Peak anode current	12 A	HighVoltage
Average anode current	3 A	HighVoltage
Overload current	120 A	HighVoltage

Characteristic		
Parameter	Published Value	Condition / Note
Forward voltage drop	12 V	—
Warm-up time	60 s	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Rectifier

Other		
Parameter	Published Value	Condition / Note
Fault anode current	120 A	0.1s max

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