



ELECTRONIC TUBE REFERENCE

M8091

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Special-quality high-voltage rectifier for high-altitude equipment subject to vibration and shock. Its rugged construction and substantial current capability suit demanding airborne systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.15 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	2000 V
NOMINAL OUTPUT CURRENT	300 mA
PEAK FORWARD CURRENT	900 mA
MAXIMUM HEATER-CATHODE VOLTAGE	650 V
<i>Promoted values taken from published characteristics and absolute/limiting ratings.</i>	

Special-quality half-wave rectifier intended for high-altitude operation in equipment subject to vibration and shock.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	—
Heater or filament current	1.15 A	—
RectifierMaximumPeakInverseVoltage	2000	Promoted field source value
RectifierPeakForwardCurrent	0.9	Promoted field source value
RectifierMaximumHeaterCathodeVoltage	650	Promoted field source value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
P.I.V. max	2000 V	Published in approved M8091.pdf target datasheet; Section1
i a(Pk) max	900 mA	Published in approved M8091.pdf target datasheet; Section1
Maximum altitud e for full P.I.V. rat ing 60 ,	0 ft	Published in approved M8091.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum acceleration (continuous operation)	2.5 g	Published in approved M8091.pdf target datasheet; Section1
Maximum shock (short duration)	500 g	Published in approved M8091.pdf target datasheet; Section1
Tub max	220 °C	Published in approved M8091.pdf target datasheet; Section1
C max. 16	16 µF	Published in approved M8091.pdf target datasheet; Section1
load max. 300	250 mA	Published in approved M8091.pdf target datasheet; Section1
Anode voltage . Ia =	150 mA	Published in approved M8091.pdf target datasheet; Section1
Output current. Vin(r.r.n.s.) = 500V, Rload! = 3k0 . . 2.5	145 mA	Published in approved M8091.pdf target datasheet; Section1
minimum peak acceleration	5 g	Published in approved M8091.pdf target datasheet; Section1
No applied voltages,	500 g	Published in approved M8091.pdf target datasheet; Section1
Change in anode voltage after 1 hour. I" = 15	0 mA	Published in approved M8091.pdf target datasheet; Section1

TUBE TINKER

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