

ELECTRONIC TUBE REFERENCE

M8212

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Special-quality double diode with separate cathodes and internal screening, designed for statistically controlled performance under severe vibration and shock.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	360 V
NOMINAL OUTPUT CURRENT	10 mA
PEAK FORWARD CURRENT	60 mA
MAXIMUM HEATER-CATHODE VOLTAGE	360 V
Promoted values taken from published characteristics and absolute/limiting ratings.	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	10 mA
Physical diode section added during approved section-structure reconciliation.	

Special-quality double diode with separate cathodes and internal screening for vibration- and shock-resistant equipment.



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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	—
Heater or filament current	300 mA	—
RectifierMaximumPeakInverseVoltage	360	Promoted field source value
RectifierNominalOutputCurrent	0.01	Promoted field source value
RectifierPeakForwardCurrent	0.06	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 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca ' - k ' + h + s + s	3.2 pF	Published in approved M8212.pdf target datasheet; Section1
Ca " - k "+h + s + S	3.2 pF	Published in approved M8212.pdf target datasheet; Section1
Ck ' - a ' + h + s +S	3.9 pF	Published in approved M8212.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ck"- a"+ ll + S+ S	3.9 pF	Published in approved M8212.pdf target datasheet; Section1
Ca ' - a " <	0.026 pF	Published in approved M8212.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I" ma x	10 mA	Published in approved M8212.pdf target datasheet; Section1
ia (p k) max	60 mA	Published in approved M8212.pdf target datasheet; Section1
ia {s urg e) max	350 mA	Published in approved M8212.pdf target datasheet; Section1
Maximum acceleration (continuous operati on)	2.5 g	Published in approved M8212.pdf target datasheet; Section1
Maximum shock (sho rt duration)	500 g	Published in approved M8212.pdf target datasheet; Section1
T lJlIlb ma x	165 °C	Published in approved M8212.pdf target datasheet; Section1
Heater cur re nt 0.65 275	325 mA	Published in approved M8212.pdf target datasheet; Section1
Hum Vh = 7.0V Test ed in circuit shown belo w 2.5	10 mV	Published in approved M8212.pdf target datasheet; Section1
Ca ' - a "	0.026 pF	Published in approved M8212.pdf target datasheet; Section1
Ca ' - k ' +I1+ s+ s 2.4	4 pF	Published in approved M8212.pdf target datasheet; Section1
8 Ck "- u" + h + s+ s 2.5	5 pF	Published in approved M8212.pdf target datasheet; Section1
ot her vo lt ages app lied ,	5 g	Published in approved M8212.pdf target datasheet; Section1
0 utput cu rre nt 2.5	14 mA	Published in approved M8212.pdf target datasheet; Section1
No applie d vo ltages	500 g	Published in approved M8212.pdf target datasheet; Section1
Th e s u pply im pedance is ad justed so that the pea k anode curre nt is not less th an	60 mA	Published in approved M8212.pdf target datasheet; Section1
total output cu r rent be ing approx imately	18 mA	Published in approved M8212.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
f 500 hours 2.5 275	325 mA	Published in approved M8212.pdf target datasheet; Section1
L 1000 hours 4.0 275	325 mA	Published in approved M8212.pdf target datasheet; Section1
{ 500 hours 2.5	35 mA	Published in approved M8212.pdf target datasheet; Section1
Emission voltage = 10V 1000 hours 6.5	30 mA	Published in approved M8212.pdf target datasheet; Section1

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