



ELECTRONIC TUBE REFERENCE

12E1

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Industrial beam tetrode from the Ediswan/Mazda family, intended for demanding electronic power and control applications with substantial plate-dissipation capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.014 S
MAXIMUM PLATE VOLTAGE	800 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	35 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	300 mA

12E1 Tetrode from Ediswan/Mazda datasheet; full semantic ratings and characteristics audit.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Beam Power

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode voltage	350 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 AEI Industrial Valves

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1961 AEI INDUSTRIAL VALVES

Section 1 · Beam Power

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum control-grid voltage	100 V	—
Maximum control-grid-screen voltage	400 V	—
Maximum heater-cathode voltage	300 V	HeaterNegative

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-earth capacitance	23 pF	—
Anode-earth capacitance	8 pF	—
Anode-grid capacitance	0.85 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Associated Electrical Industries

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

1961 ASSOCIATED ELECTRICAL INDUSTRIES

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum control-grid voltage	100 V	—
Maximum control-grid-screen voltage	400 V	—
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PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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TUBE TINKER

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