



ELECTRONIC TUBE REFERENCE

872AX

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated mercury-vapor half-wave rectifier for high-voltage electronic equipment. Its heavy filament and low arc voltage provide ampere-class DC output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 7.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
FORWARD VOLTAGE DROP	10 V
WARM-UP TIME	30 s
Promoted from source fields where the locked schema has a direct semantic match; remaining RF, rectifier, capacitance, thermal, and radiation-counter data are retained in TUBE_SECTION_PARAMETER.	

Mercury-vapor half-wave rectifier for high-voltage equipment.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	MercuryVapor
Filament current	7.5 A	MercuryVapor
Peak inverse anode voltage maximum	10000 V	HalfWave;MercuryVapor
Peak anode current maximum	5 A	HalfWave;MercuryVapor
Average anode current maximum	1.25 A	HalfWave;MercuryVapor
Recommended mercury temperature range	Mercury +20 to +60 °C	MercuryVapor
Surge current maximum	50 A	HalfWave;MercuryVapor

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	30 s	MercuryVapor
Tube voltage drop	10 V	MercuryVapor



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament heating time	30 s	HalfWave;MercuryVapor
Tube voltage drop	10 V	HalfWave;MercuryVapor

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse anode voltage maximum	10000 V	HalfWave;MercuryVapor
Peak anode current maximum	5 A	HalfWave;MercuryVapor
Average anode current maximum	1.25 A	HalfWave;MercuryVapor
Recommended mercury temperature range	+20 to +60 °C	MercuryVapor
Surge current maximum	50 A	HalfWave;MercuryVapor

TUBE TINKER

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