



ELECTRONIC TUBE REFERENCE

F7100

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
DIODE

High-voltage power diode intended for rectifier service and related special applications requiring substantially greater voltage handling than receiving detector diodes.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Diode	
PEAK INVERSE VOLTAGE	30000 V
Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.	

The F7100 is a high-voltage power diode designed for rectifier service and related special applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The anode is forced air cooled and is capable of dissipating	3.5	The anode is forced air cooled and is capable of dissipating 3.5 kilowatts.
Filament Voltage	15 V	Filament Voltage 15 volts
Filament Current	36 A	Filament Current 36 amperes
Max, Peak Inverse Voltage -- kv [1]	30 kV	Max, Peak Inverse Voltage -- kv 30 30 30
Max, Peak Inverse Voltage -- kv [2]	30 kV	Max, Peak Inverse Voltage -- kv 30 30 30
Max, Peak Inverse Voltage -- kv [3]	30 kV	Max, Peak Inverse Voltage -- kv 30 30 30
Max., Peak Plate Current - amps [1]	100 A	Max., Peak Plate Current - amps 100 T.5 rms 20
Max., Peak Plate Current - amps [2]	5 A	Max., Peak Plate Current - amps 100 T.5 rms 20
Max., Peak Plate Current - amps [3]	20 A	Max., Peak Plate Current - amps 100 T.5 rms 20
Max., Plate Current - amps	6 A	Max., Plate Current - amps - - 6 avg.
Plate Dissipation - kw [1]	3.5 kW	Plate Dissipation - kw 3.5 2.8 2.4
Plate Dissipation - kw [2]	2.8 kW	Plate Dissipation - kw 3.5 2.8 2.4
Plate Dissipation - kw [3]	2.4 kW	Plate Dissipation - kw 3.5 2.8 2.4
Mex. Glass & Seal Temperature	180	Mex. Glass & Seal Temperature 180 °cC
Published value	110 W	110 POWER DICDES
F	7100 W	F-7100 POWER DIODE