



ELECTRONIC TUBE REFERENCE

F7975

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
DIODE

High-voltage thermionic power diode designed for specialized rectifier service and other applications requiring substantial inverse-voltage capability.

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	55000 V
<i>Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.</i>	

The F7975 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
Filament Voltage	15 V	Filament Voltage 15 volts
Filament Current	36 A	Filament Current 36 amperes
Max. Peak Inverse Voltage [1]	55 V	Max. Peak Inverse Voltage 55 55 & kilovolts
Max. Peak Inverse Voltage [2]	55 V	Max. Peak Inverse Voltage 55 55 & kilovolts
Max. Peak Plate Current [1]	100 A	Max. Peak Plate Current 100 100 21 amperes
Max. Peak Plate Current [2]	100 A	Max. Peak Plate Current 100 100 21 amperes
Max. Peak Plate Current [3]	21 A	Max. Peak Plate Current 100 100 21 amperes
Max. Average Plate Current	5 A	Max. Average Plate Current - - 5 amperes
Plate Current	165000 A	Plate Current 165,000
Inter-Electrode Capacitance	11.5 pF	Inter-Electrode Capacitance 11.5 ppf
Max. Glass & Seal Temperature	180	Max. Glass & Seal Temperature 180 °C
Plate Dissipation [1]	3.5 W	Plate Dissipation 3.5 2.8 2.4 kilowatts
Plate Dissipation [2]	2.8 W	Plate Dissipation 3.5 2.8 2.4 kilowatts
Plate Dissipation [3]	2.4 W	Plate Dissipation 3.5 2.8 2.4 kilowatts
Max. Incoming Air Temperature	45	Max. Incoming Air Temperature 45 °¢
Published value [1]	10 W	10 F-7975 POWER DIODE
Published value [2]	7975 W	10 F-7975 POWER DIODE
Published value	10	10 PLATE VOLTS
F	7975 W	F-7975 POWER DIODE