

ELECTRONIC TUBE REFERENCE

5973

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-vacuum half-wave rectifier and surge-limiting diode for very-high-voltage, high-current radar and power supplies, combining approximately 75 kV inverse-voltage capability with ampere-class output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 20.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	850 W
PEAK INVERSE VOLTAGE	75000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	20 A
FORWARD VOLTAGE DROP	950 V
WARM-UP TIME	30 s
Published ratings and characteristics promoted from the supplied General Electric source where explicitly available.	

High-vacuum rectifier and surge-limiting diode rated for very high current and voltage service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	16 V	—
Filament Voltage	16 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectifierAverageCurrent	1.25 A	At40kV
LimiterPeakCurrent	20 A	At75kV



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage Minimum	15.2 V	—
Filament Voltage Maximum	16.8 V	—
FilamentCurrentMaximum	20.2 A	—
InterelectrodeCapacitance	14 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LimiterPeakForwardVoltage	20000 V	—