



ELECTRONIC TUBE REFERENCE

EL6F

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-current directly heated xenon half-wave rectifier with tantalum anode. Its massive filament and low arc voltage provide several amperes for industrial supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 21 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	6.4 A
PEAK INVERSE VOLTAGE	920 V
NOMINAL OUTPUT CURRENT	6.4 A
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	9 V
WARM-UP TIME	60 s
<i>Xenon rectifier section.</i>	

EL6F is a half-wave xenon rectifier tube using tantalum anode and xenon gas filling. The datasheet publishes filament, anode-current, inverse-voltage, arc-drop and operating ratings.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1942 Electronics Inc

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

1942 ELECTRONS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-c. Meter Value - Continuous	6.4 A	—
Oscillograph Peak - Continuously Recurring	40 A	—
Peak Inverse Voltage	920 V	—
Filament Voltage	2.5 V	—
Filament Current	21 A	—
Heating Time Minimum	60 s	—
Maximum Short Circuit Current	770 A	—
Maximum Commutation Factor	0.66 V/us x A/us	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Arc Drop	9 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Electronics Inc

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

1958 ELECTRONS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	6.4 A	—
Overload anode current	12.8 A	LessThan10Seconds
Continuously recurring peak anode current	40 A	—
Peak inverse voltage	920 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	60 s	—
Average arc drop, average tube	9 V	—
Average arc drop, highest/end-of-life tube	12 V	—
Filament current tolerance	2 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas filling	Xenon	—
Anode material	Tantalum	—