



ELECTRONIC TUBE REFERENCE

EL16F

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 gas-assisted conduction provide roughly sixteen amperes for low-voltage heavy industrial supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 36 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	16 A
PEAK INVERSE VOLTAGE	620 V
NOMINAL OUTPUT CURRENT	16 A
PEAK FORWARD CURRENT	96 A
FORWARD VOLTAGE DROP	7 V
WARM-UP TIME	180 s
<i>Xenon rectifier section.</i>	

EL16F 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 ELECTRONICS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-c. Meter Value - Continuous	16 A	—
Oscillograph Peak - Continuously Recurring	96 A	—
Peak Inverse Voltage	620 V	—
Filament Voltage	2.5 V	—
Filament Current	36 A	—
Heating Time Minimum	3 min	—
Maximum Short Circuit Current	1000 A	—
Maximum Commutation Factor	0.66 V/us x A/us	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Arc Drop	7 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 ELECTRONICS INC

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	16 A	—
Overload anode current	32 A	LessThan10Seconds
Continuously recurring peak anode current	96 A	—
Peak inverse voltage	620 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	180 s	—
Average arc drop, average tube	7 V	—
Average arc drop, highest/end-of-life tube	10 V	—
Filament current tolerance	3.5 A	—

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