



ELECTRONIC TUBE REFERENCE

EL3CL

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Xenon-filled full-wave power rectifier using tantalum-anode construction. Rated for approximately 725 V peak inverse voltage and 2.5 A DC output for high-current rectifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 11.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	2.5 A
PEAK INVERSE VOLTAGE	725 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	10 A
FORWARD VOLTAGE DROP	8 V
WARM-UP TIME	30 s

SECTION2 Rectifier	
MAXIMUM CATHODE CURRENT	2.5 A
PEAK INVERSE VOLTAGE	725 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	10 A
FORWARD VOLTAGE DROP	8 V
WARM-UP TIME	30 s
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

EL3CL xenon-filled power rectifier with tantalum anode construction.



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.

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Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	2.5 A	—
Overload anode current	3 A	LessThan3Seconds
Continuously recurring peak anode current	10 A	—
Peak inverse voltage	725 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	30 s	—
Average arc drop, average tube	8 V	—
Average arc drop, highest/end-of-life tube	13 V	—
Filament current tolerance	1 A	—

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

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Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous DC anode current	2.5 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Overload anode current	3 A	LessThan3Seconds
Continuously recurring peak anode current	10 A	—
Peak inverse voltage	725 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	30 s	—
Average arc drop, average tube	8 V	—
Average arc drop, highest/end-of-life tube	13 V	—
Filament current tolerance	1 A	—

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