ELECTRONIC TUBE REFERENCE

EL3CF

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

> Xenon-filled full-wave power rectifier with tantalum-anode construction. Rated for approximately 725 V peak inverse voltage and 2.5 A DC output for substantial power-supply loads.

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
Second physical rectifier section; electrical properties populated from applicable published ratings.	

EL3CF xenon-filled power rectifier with tantalum anode construction.

SOURCE OPERATING CONDITIONS

1958 Electrons Inc

SOURCE PDF

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	**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**	—