



ELECTRONIC TUBE REFERENCE

34CM3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated high-current vacuum rectifier with a 33.5 V series heater, providing approximately 5.5 kV peak inverse-voltage capability and 400 mA nominal output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	33.5 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	5500 V
NOMINAL OUTPUT CURRENT	400 mA
PEAK FORWARD CURRENT	1.7 A
FORWARD VOLTAGE DROP	10 V
MAXIMUM HEATER-CATHODE VOLTAGE	5500 V
<i>Inherited from explicitly referenced parent 6CM3; supplied sheet changes heater characteristics.</i>	

The 34CM3 is a vacuum rectifier. The supplied datasheet was used for heater, ratings, characteristics, and operating data; where the sheet explicitly states equivalence to a 6-volt parent, that parent electrical data is inherited while retaining this tube's heater characteristics.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Rectifier

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to cathode and heater $c_{p(k+h)}$	20 pF	Inherited from explicitly referenced 6CM3.
Heater to cathode ch_k	4 pF	Inherited from explicitly referenced 6CM3.
(i_b) =	350 mA	Inherited from explicitly referenced 6CM3.

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak i_{bm}	1700 mA	Inherited from explicitly referenced 6CM3.
Average $I_{b\sim a\sim}$	400 mA	Inherited from explicitly referenced 6CM3.

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Instantaneous Tube Voltage Drop	10 V	At 350 mA instantaneous plate current Inherited from explicitly referenced 6CM3.

TUBE TINKER

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