

ELECTRONIC TUBE REFERENCE

6068

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
DIODE-DIODE

Special 6AL5-family twin diode for detector, discriminator, clipping, and general signal rectification using a conventional 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BT	BASE PINS	6
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6BT - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 1K	A	K – Cathode	CONNECTED
PIN2 – 2P	B	P – Plate (Anode)	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – 2K	B	K – Cathode	CONNECTED
PIN6 – IS	A	IS – Internal Screen	CONNECTED
PIN7 – 1P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	420 V
NOMINAL OUTPUT CURRENT	9 mA
PEAK FORWARD CURRENT	54 mA
<i>Published maximum ratings, representative operating conditions, and rectifier data reviewed.</i>	

SECTION2 Diode	
<i>No fixed ratings recorded.</i>	
<i>Physical second diode section added during approved section-structure reconciliation.</i>	

6068 is listed in the supplied receiving-tube handbook as a twin diode, special 6AL5. The published heater/filament rating is 6.3 V at 0.3 A.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	9 mA	RectifierService
Peak inverse voltage	420 V	RectifierService
RMS supply voltage per plate	150 V	RectifierService
Peak current per plate	54 mA	RectifierService

TUBE TINKER

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and their source documents.

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