



Description and Rating

TWIN DIODE

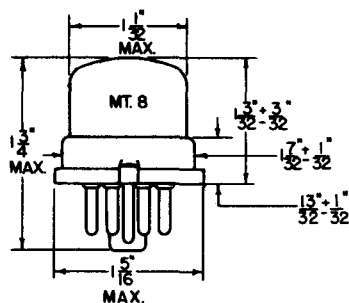
Principal Application: The type 6H6 is a twin-diode with individual cathodes brought out to separate base pins. The 6H6 is designed for ser-

Cathode:	Coated Unipotential
Heater Voltage (A-C or D-C)	6.3 Volts
Heater Current	0.3 Ampere
Envelope	MT-8 Metal Shell
Base: . . B7-22 Small wafer Octal 7-Pin	Phenolic

vice as a diode detector, automatic volume control rectifier, or as a low current power rectifier.

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Mounting Position: . . . . . Any
Direct Interelectrode Capacitances: *
Plate No. 1 to Cathode No. 1* . . . . . 3.0  $\mu$ f
Plate No. 2 to Cathode No. 2* . . . . . 3.4  $\mu$ f
Plate No. 1 to Plate No. 2 (Max)** . . . . . 0.10  $\mu$ f
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PHYSICAL DIMENSIONS

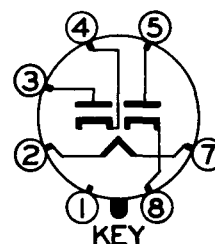


RMA 8-5

TERMINAL CONNECTIONS

Pin 1 - Shell and Internal Shield
Pin 2 - Heater
Pin 3 - Plate Number 2
Pin 4 - Cathode Number 2
Pin 5 - Plate Number 1
Pin 7 - Heater
Pin 8 - Cathode Number 1

BASING DIAGRAM



RMA 7Q
BOTTOM VIEW

MAXIMUM RATINGS

	Design Center	Absolute	
Peak Inverse Voltage	420	465	Volts
Peak Plate Current per Plate	48	53	Milliamperes
A-C Plate Voltage per Plate (RMS)	150	165	Volts
D-C Output Current per Plate	8.0	8.8	Milliamperes
D-C Heater-Cathode Voltage	330	365	Volts

CHARACTERISTICS AND TYPICAL OPERATION

HALF-WAVE RECTIFIER $\odot$

Heater Voltage (A-C or D-C)	6.3	6.3	Volts
A-C Plate Voltage per Plate (RMS)	117	150	Volts
Minimum Total Effective Plate-Supply Impedance per Plate #	15	40	Ohms
Maximum D-C Output Current per Plate	8	8	Milliamperes

VOLTAGE DOUBLER

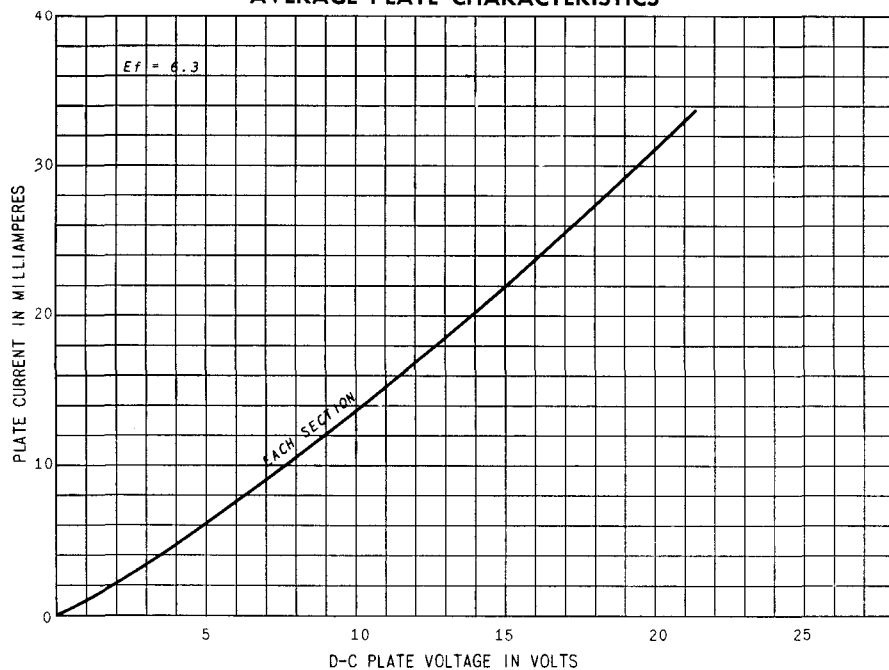
	Half-Wave	Full-Wave	
Heater Voltage (A-C or D-C)	6.3	6.3	Volts
A-C Plate Voltage per Plate (RMS)	117	117	Volts
Minimum Total Effective Plate-Supply			
Impedance per Plate #	30	15	Ohms
Maximum D-C Output Current per Plate	8	8	Milliamperes

6H6

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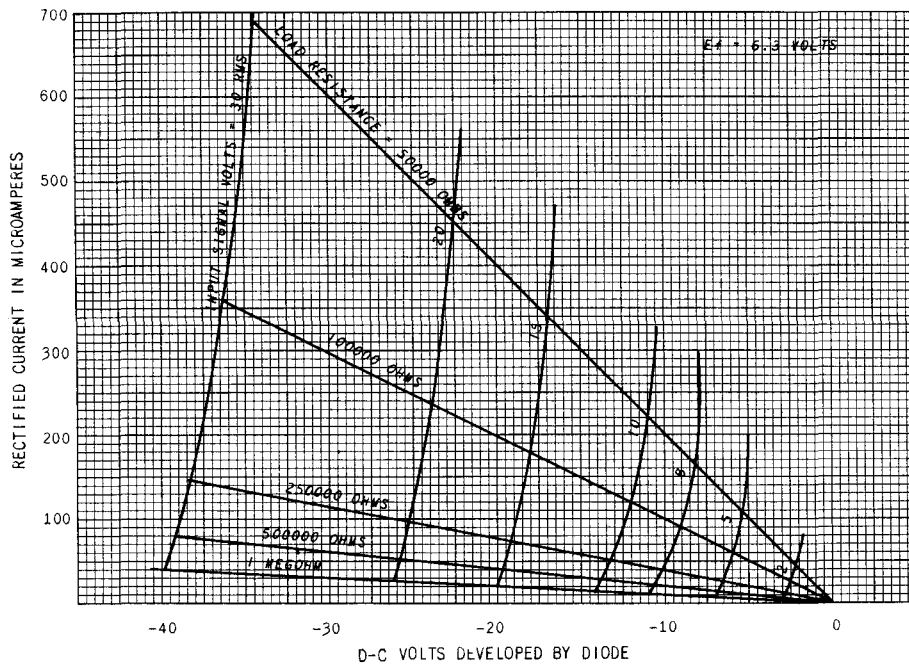
- * With Shell and internal shield and heater connected to cathode of unit under test.
- ** With shell and internal shield, heater and cathodes connected to ground.
- o When operated as a half-wave rectifier the two units may be used separately or in parallel.
- # When filter condensers larger than 40 microfarads are used it may be necessary to add additional plate-supply impedance to limit the peak plate current to the rated maximum.

AVERAGE PLATE CHARACTERISTICS



OPERATION CHARACTERISTICS

HALF-WAVE EACH SECTION



Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.