



ELECTRONIC TUBE REFERENCE

6M8GT

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-PENTODE-TRIODE

Diode-triode-pentode receiving tube combining RF/IF amplification, detector rectification, and audio-frequency amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode

PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.0018 S

Published section data promoted where applicable; additional operating values retained as parameters.

SECTION2 Triode

PLATE RESISTANCE	81000 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	100

Published section data promoted where applicable; additional operating values retained as parameters.

SECTION3 Diode

No fixed ratings recorded.

Published section data promoted where applicable; additional operating values retained as parameters.

Midget diode-triode-pentode for small AC receivers; the pentode serves as an RF or IF amplifier and the diode-triode section as detector and AF amplifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1939 Arcturus

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

1939 ARCTURUS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	—
Screen-grid voltage	100 V	—
Control-grid voltage	-3 V	—

1939 ARCTURUS

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	—
Control-grid voltage	-1 V	—
Plate current	0.25 mA	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker