Quadruple Diode

9-PIN MINIATURE TYPE
For Phase-Detector and Noise-Immune Color-Killer Circuits in Color-Television Receivers, and for FM-Stereo-Multiplex Equipment

GENERAL DATA

Electrical:
Heater Characteristics and Ratings (Design-Maximum Values):
Voltage (AC or DC) .................. 6.3 ± 0.6 volts
Current at heater volts = 6.3 ........ 0.600 amp
Peak heater-cathode voltage (Each unit):
Heater negative with
respect to cathode .................. 300 max. volts
Heater positive with
respect to cathode .................. 300 max. volts

Direct Interelectrode Capacitances (Approx.):
Plate of unit No.1 & cathode of
unit No.2 to cathode of unit No.1 .. 1.8 µuf
Plate of unit No.1 & cathode of
unit No.2 to plate of unit No.2 ... 2.2 µuf
Plate of unit No.2 to internal shield
and heater ......................... 0.62 µuf
Plate of unit No.3 & cathode of
unit No.4 to cathode of unit No.3 .. 1.9 µuf
Plate of unit No.3 & cathode of unit
No.4 to plate of unit No.4 ........ 2.2 µuf
Plate of unit No.4 to internal shield
and heater ......................... 0.94 µuf
Cathode of unit No.1 to internal shield
and heater ......................... 1.8 µuf
Cathode of unit No.3 to internal shield
and heater ......................... 1.9 µuf

Mechanical:
Operating Position .................. Any
Type of Cathodes .................. Coated Unipotential
Maximum Overall Length .................. 2-5/8"
Maximum Seated Length .................. 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) .. 2" ± 3/32"
Diameter .................. 0.750" to 0.875"
Dimensional Outline .................. See General Section
Bulb .................. Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW: 9PQ
Pin 1 - Plate of Unit No.4
Pin 2 - Plate of Unit No.3, Cathode of Unit No.4
Pin 3 - Cathode of Unit No.3
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Internal Shield
Pin 7 - Plate of Unit No.2
Pin 8 - Plate of Unit No.1, Cathode of Unit No.2
Pin 9 - Cathode of Unit No.1

Maximum Ratings, Design-Maximum Values:
Values are for Each Unit
PEAK INVERSE PLATE VOLTAGE: 300 max. volts
PEAK PLATE CURRENT: 54 max. ma
DC OUTPUT CURRENT: 9 max. ma

Characteristics, Instantaneous Value:
Values are for Each Unit
Plate Current for plate volts = 10: 60 ma

* Without external shield.

ARRANGEMENT OF DIODE UNITS

PIN 6

PIN 1
UNIT No.4

PIN 2
UNIT No.3

PIN 3

PIN 7
UNIT No.2

PIN 8
UNIT No.1

PIN 9

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