DIODE

UNIPOTENTIAL CATHODE
FOR DAMPER SERVICE IN
TELEVISION RECEIVERS
ANY MOUNTING POSITION

GLASS BULB
SHORT INTERMEDIATE SHELL
5 PIN OCTAL WITH
EXTERNAL BARRIERS
85 - 85
OUTLINE DRAWING
JEDEC 9-44

THE 6DM4 IS A HALF-WAVE VACUUM RECTIFIER EMPLOYING A T-9 ENVELOPE. IT IS
DESIGNED SPECIFICALLY FOR USE AS A DAMPER DIODE IN HORIZONTAL-DEFLECTION
CIRCUITS OF BLACK-AND-WHITE TELEVISION RECEIVERS. EXCEPT FOR HEATER
CHARACTERISTICS AND HEATER WARM-UP TIME, THE 6DM4 IS IDENTICAL TO THE

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITHOUT EXTERNAL SHIELD

PLATE TO HEATER AND CATHODE  8.5  pf
CATHODE TO HEATER AND PLATE  11.5  pf
HEATER TO CATHODE  4  pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS  6.3  VOLS  1200  MA.

HEATER SUPPLY LIMITS:
VOLTAGE OPERATION  6.3 ± 0.6  VOLTS

MAXIMUM PEAK HEATER CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE  5000A  VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE  300B  VOLTS

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MAXIMUM RATINGS
DESIGN MAXIMUM VALUES - SEE ETA STANDARD RS-239

DAMPER SERVICE

PEAK INVERSE PLATE VOLTAGE 5000\(^{D}\) VOLTS
PEAK PLATE CURRENT 1200 MA.
DC PLATE CURRENT 175 MA.
PLATE DISSIPATION 6.5 WATTS

CHARACTERISTICS

TUBE VOLTAGE DROP FOR PLATE CURRENT OF 400 MA. APPROXIMATE 35 VOLTS

A. THE DC COMPONENT MUST NOT EXCEED 900 VOLTS.

B. THE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

\(^{D}\) FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE. (15% OF ONE HORIZONTAL SCANNING CYCLE IS 10 MICROSECONDS.)