TUNG-SOL

DIODE

COATED UNIPOTENTIAL CATHODE FOR DAMPING DIODE APPLICATIONS IN TV RECEIVERS
AC OR DC
ANY MOUNTING POSITION

GLASS BULB BUTTON
12 PIN BASE E12-70
OUTLINE DRAWING JEDEC 9-69

THE 6AX3 IS A HEATER-CATHODE SINGLE DIODE IN THE COMPACT 12 PIN T-9 CONSTRUCTION. ITS HIGH HEATER AND CATHODE INSULATION IS DESIGNED FOR USE AS A DAMPING DIODE IN TV RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

CATHODE TO PLATE AND HEATER: K TO (P+H) 7.5 pf
PLATE TO CATHODE AND HEATER: P TO (K+H) 5.5 pf
HEATER TO CATHODE: (H TO K) 2.8 pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-379

AVERAGE CHARACTERISTICS 6.3 VOLTS 1200 MA.

HEATER SUPPLY LIMITS:
VOLTAGE OPERATION 6.3±0.6 VOLTS

MAXIMUM HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE
DC COMPONENT 900 VOLTS
TOTAL DC AND PEAK 5000 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE
DC COMPONENT 100 VOLTS
TOTAL DC AND PEAK 300 VOLTS

THE EQUIPMENT DESIGNER SHALL DESIGN THE EQUIPMENT SO THAT THE HEATER VOLTAGE IS CENTERED AT THE SPECIFIED NOGGET VALUE, WITH HEATER SUPPLY VARIATIONS RESTRICTED TO MAINTAIN HEATER VOLTAGE WITHIN THE SPECIFIED TOLERANCE.

CONTINUED ON FOLLOWING PAGE
MAXIMUM RATINGS

PEAK INVERSE PLATE VOLTAGE 5000 VOLTS
PLATE DISSIPATION 5.3 WATTS
STEADY-STATE PEAK PLATE CURRENT 1000 MA.
DC OUTPUT 165 MA.

AVERAGE CHARACTERISTICS

TUBE VOLTAGE DROP
$I_b = 250$ MILLIAMPERES DC
$E_f = 32$ VOLTS

*FOR OPERATION IN A 525-LINE, 50-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.