THE TUNG-SOL 6CD3 IS AN INDIRECTLY-HEATED DIODE IN COMPACTRON CONSTRUCTION. IT IS INTENDED FOR USE IN DAMPER SERVICE OF TELEVISION HORIZONTAL DEFLECTION CIRCUITS. IT IS DESIGNED TO WITHSTAND HIGH VOLTAGE PULSES BETWEEN CATHODE AND BOTH HEATER AND PLATE ELEMENTS SUCH AS NORMALLY ENCOUNTERED IN "DIRECT DRIVE" CIRCUITS. ITS HIGH CURRENT CAPABILITY MAKES IT PARTICULARLY SUITABLE FOR COLOR TELEVISION APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

CATHODE TO PLATE AND HEATER: K TO (P+H) 16 pf
PLATE TO CATHODE AND HEATER: P TO (K+H) 14 pf
HEATER TO CATHODE: H TO K 4.0 pf

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

AVERAGE CHARACTERISTICS 6.3 VOLTS 2.5 AMPS.
LIMITS OF APPLIED VOLTAGE -AC OR DC 6.3 ± 0.5 VOLTS

MAXIMUM HEATER CATHODE VOLTAGE *
HEATER NEGATIVE WITH RESPECT TO CATHODE DC 1,000 VOLTS
TOTAL DC AND PEAK 6,000 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE DC 100 VOLTS
TOTAL DC AND PEAK 300 VOLTS

CONTINUED ON FOLLOWING PAGE
CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS
DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

DAMPER DIODE SERVICE *
PEAK INVERSE PLATE VOLTAGE 6,000 VOLTS
DC OUTPUT CURRENT 350 MA.
STEADY STATE PEAK PLATE CURRENT 1,500 MA.
PLATE DISSIPATION 12 WATTS

AVERAGE CHARACTERISTICS

TUBE VOLTAGE DROP SEE GRAPH BELOW

* FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION. THE DUTY CYCLE OF THE VOLTAGE PULSE IS NOT EXCEED 15 PER CENT OF A SCANNING CYCLE.