TUNG-SOL

PENTODE

MINIATURE TYPE

SHARP-CUTOFF PENTODE

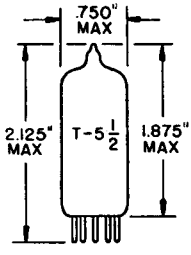
FOR

USE AS AN IF AMPLIFIER

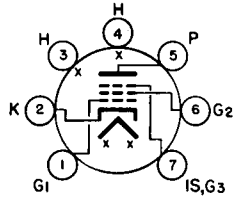
IN TV RECEIVERS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7CM

THE 6DK6 IS A SHARP-CUTOFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE AS A WIDE-BAND HIGH-FREQUENCY AMPLIFIER AND IS PARTICULARLY SUITABLE FOR USE AS AN IF AMPLIFIER IN TELEVISION RECEIVERS. EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 6DK6 IS IDENTICAL TO THE 3DK6 AND THE 4DK6.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE	MAX.	0.025	pf
INPUT		6.3	pf
OUTPUT		1.9	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS *	6.3	VOLTS	300	MA.
LIMITS OF APPLIED VOLTAGE			6.3 ± 0.6	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE				
TOTAL DC AND PEAK			200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE				
DC COMPONENT			100	VOLTS
TOTAL DC AND PEAK			200	VOLTS

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

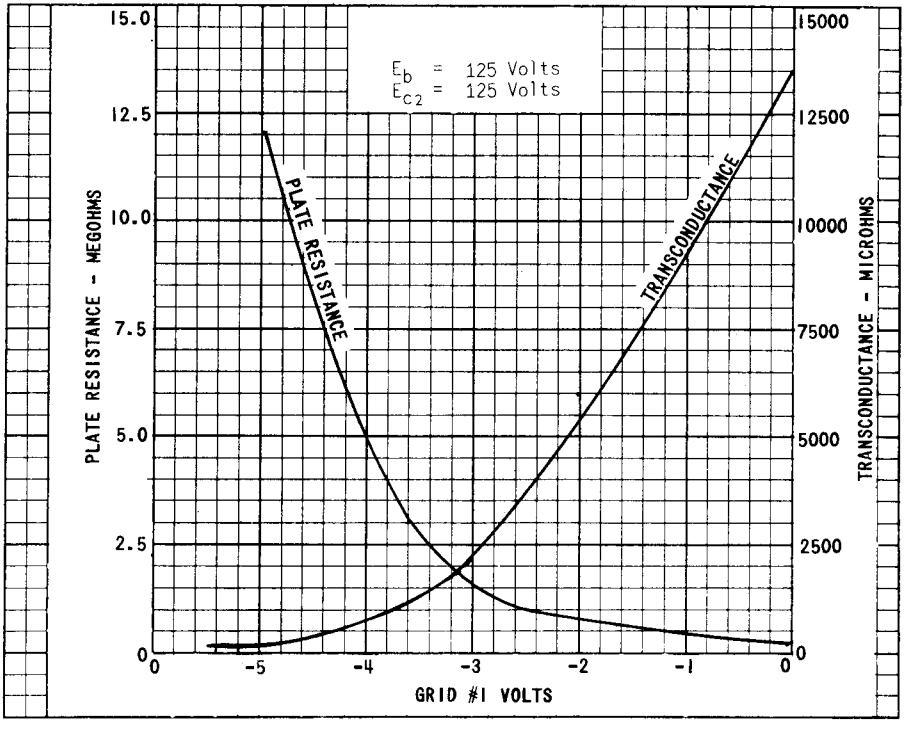
MAXIMUM RATINGS

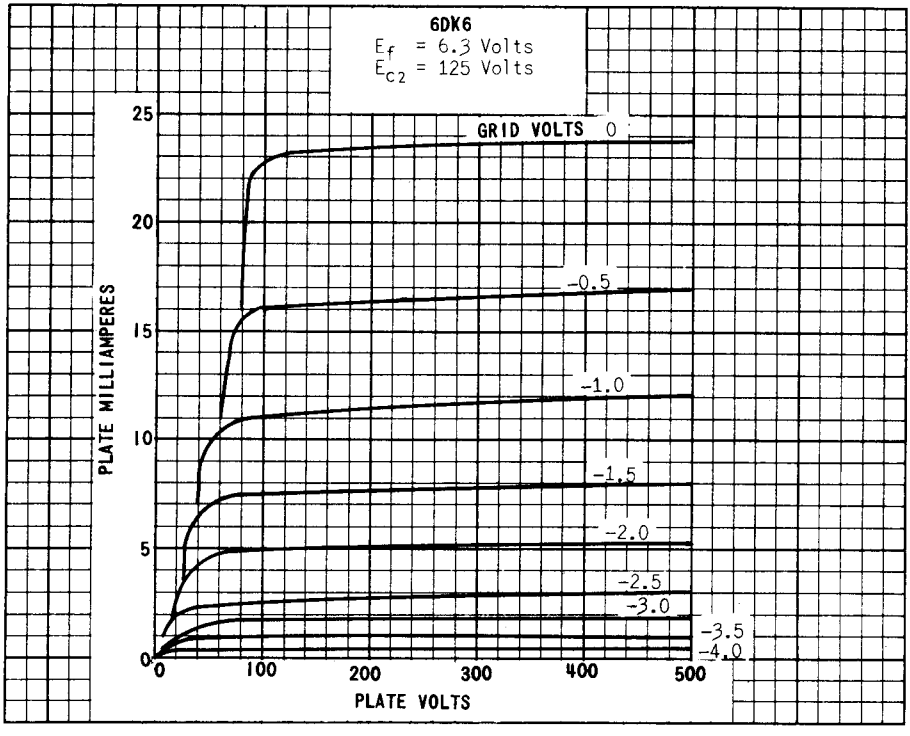
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

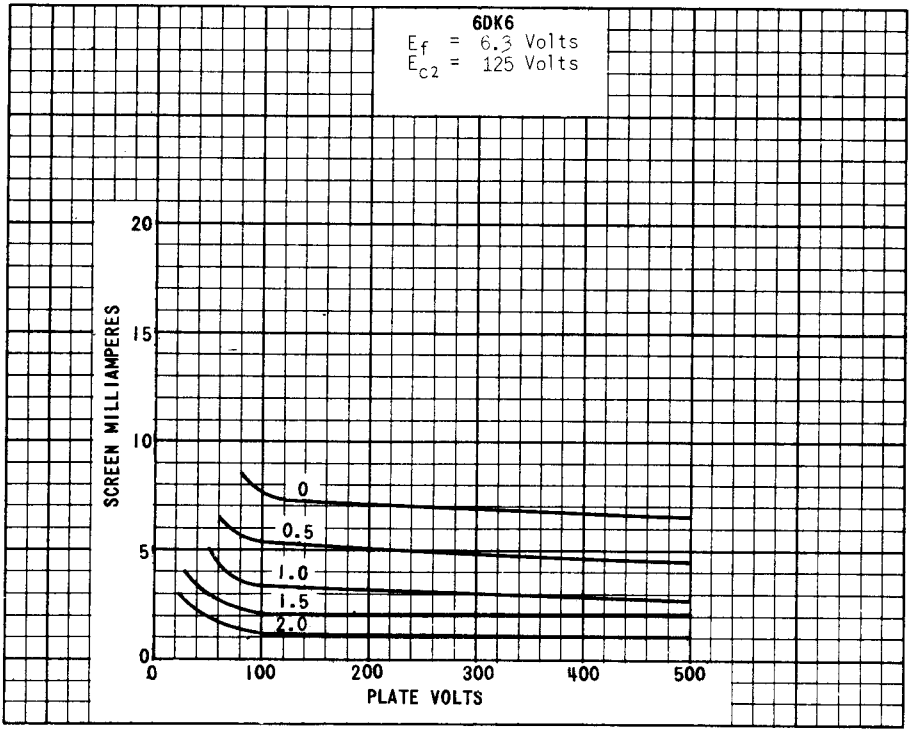
PLATE VOLTAGE	330	VOLTS
GRID 2 SUPPLY VOLTAGE	330	VOLTS
GRID 2 VOLTAGE	See Rating Chart	
PLATE DISSIPATION	2.3	WATTS
GRID 2 DISSIPATION	0.55	WATTS
GRID 1 VOLTAGE - POSITIVE VALUE	0	VOLTS

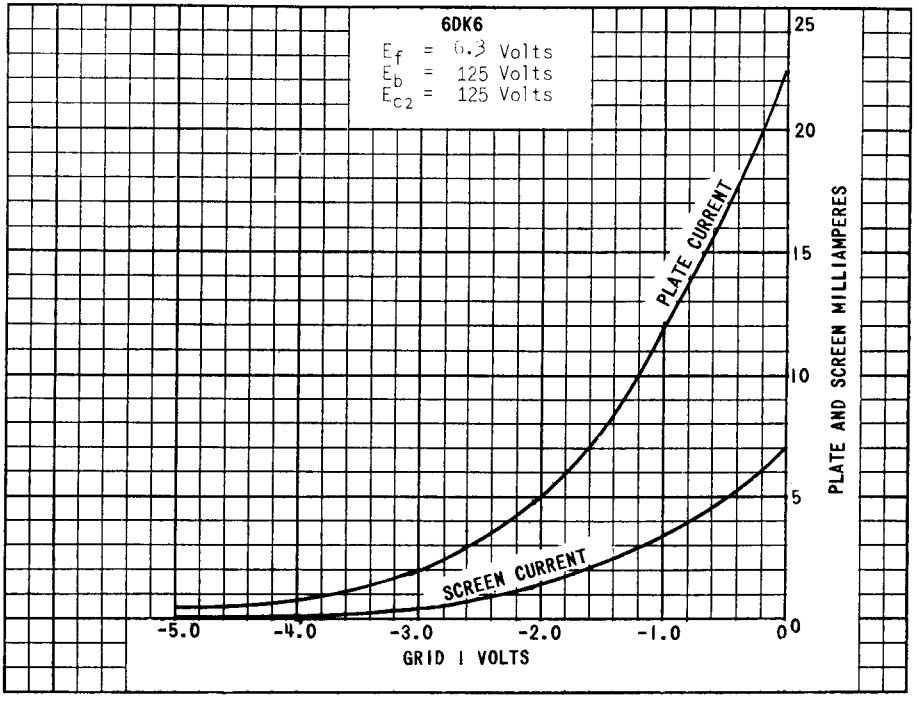
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

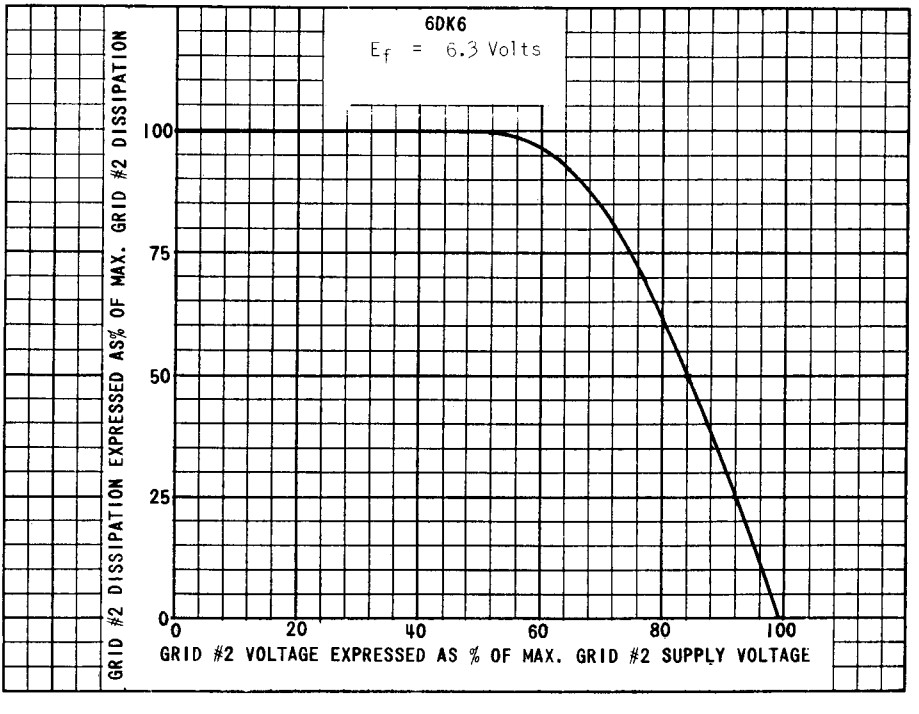
PLATE VOLTAGE		125	VOLTS
GRID 3 (SUPPRESSOR)	Connected To Cathode At Socket		
GRID 2 VOLTAGE		125	VOLTS
CATHODE BIAS RESISTOR		56	OHMS
PLATE CURRENT		12.0	MA.
GRID 2 CURRENT		3.8	MA.
TRANSCONDUCTANCE		9 800	μMHOS
PLATE RESISTANCE	APPROX.	0.35	MEGOHMS
GRID 1 VOLTAGE FOR Ib = 20 μA		-6.5	VOLTS








6DK6
E_f = 6.3 Volts
E_b = 125 Volts
E_{c2} = 125 Volts
PLATE CURRENT
SCREEN CURRENT
PLATE AND SCREEN MILLIAMPERES
25
20
15
10
5
0
-5.0
-4.0
-3.0
-2.0
-1.0
0
GRID 1 VOLTS


6DK6
E_f = 6.3 Volts
GRID #2 DISSIPATION EXPRESSED AS% OF MAX. GRID #2 DISSIPATION
100
75
50
25
0
0
20
40
60
80
100
GRID #2 VOLTAGE EXPRESSED AS % OF MAX. GRID #2 SUPPLY VOLTAGE