EL 509

OUTPUT POWER BEAM PENTODE
Base: OCTAL

U_f = 6,3 V
I_f = 2 A

Typical characteristic:

U_a = 160 V
U_{g2} = 160 V
U_{g1} = -30 V
I_a = 200 mA
I_{g2} = 10 mA

SHORT TERM MEASURING
(ABOUT 3 SEC.)

I = min 700 mA a.c.
U_{sat} = 30 V a.c.

Limiting values:

U_a = 700 V
U_{g2} = 700 V
W_{g2} = 9 W
I_k = 500 mA
U_{kf} = 150 V
W_{a+g2} = max. 42 W

Capacitances:

$C_{a/g1}$ = 3 pF

Dimension and connections:

max 38

max 105

max 116

g2   g1
④   ⑤
a ③
f ②   ⑦ f
        ⑧
    k,g3

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PLATE CHARACTERISTICS

$U_{G2}=160V$

$U_{G1}=0\,V$
-5 V
-10 V
-15 V
-20 V
-25 V
-30 V

$I_{G2}(mA)$ $I_A(A)$
2,0
1,8
1,6
1,4
1,2
1,0
0,8
0,6
0,4
0,2
0

50
40
30
20
10
0

Ua(V)
0 50 100 150 200 250 300 350 400

TRANSFER CHARACTERISTIC

$U_A=U_{G2}=160V,\ U_F=6,3V$
$I_A,I_{G2}=f(-U_{G1})$

I_A
I_{G2}

$I_A(mA)$
1100
1000
900
800
700
600
500
400
300
200
100
0

-U_{G1}(V)
60 50 40 30 20 10 0