

Sylvania

TYPE 1Q6 DIODE PENTODE

RATINGS AND CHARACTERISTICS

Filament Voltage	1.25	Volts
Maximum Plate Voltage	100	Volts
Maximum Screen Voltage	100	Volts
Maximum Cathode Current	2.0	Ma.
Maximum Diode Drop for 0.5 Ma.	10	Volts

Direct Interelectrode Capacitances:	Unshielded	Shielded*
Cgp	0.12	0.085 μ f.
Cin	1.60	1.80 μ f.
Cout	2.00	4.20 μ f.
Cgl-d	0.15	0.15 μ f. Max.

*With 0.405" Diameter Shield Connected to Negative Filament

OPERATING CONDITIONS AND CHARACTERISTICS

Filament Voltage DC	1.25	1.25	Volts
Filament Current	0.04	0.04	Ampere
Plate Voltage	30	67.5	Volts
Screen Voltage	30	67.5	Volts
Grid Voltage	0	0	Volts
Plate Current	.33	1.6	Ma.
Screen Current	.09	0.4	Ma.
Plate Resistance	0.5	0.4	Megohm
Mutual Conductance	330	600	μ mhos
Voltage Gain (approx.)	30 (1)	60 (2)	

- (1) With $R_{c2} = 2.2$ megohms $R_b = 1.0$ megohms $R_{cf} = 4.7$ megohms
 (2) With $R_{c2} = 3.9$ megohms $R_b = 1.0$ megohms $R_{cf} = 4.7$ megohms

CIRCUIT APPLICATION

Sylvania Type 1Q6 is a diode audio pentode tube suitable for use in very small radio sets or amplifiers. The other types required for a normal set complement and designed for use with it are Types 1C8 (Converter), 1W5 (RF Pentode Amplifier) and 1V5 (Output Pentode).

This type corresponds in service and circuit design to Types 1LD5 and 1S5 but is rated for use at lower voltages. The gains are comparable considering the reduced size and voltages. For a diode load curve, reference should be made to that given for Sylvania Type 1LD5.

The tinned leads permit direct soldering into the circuit and permit great reduction in size of completed equipment. The small size and light weight permit use under severe mechanical conditions and in locations where larger tubes could not be considered.

COMMERCIAL ENGINEERING DEPARTMENT
 Sylvania Electric Products Inc., Emporium, Pennsylvania
 PRINTED IN USA

PHYSICAL SPECIFICATIONS

Style	T-3
Base	Flexible Leads
Bulb	T-3
Diameter	0.400" Max.
Lead Length	1.25" Min.
Overall Bulb Length	1.5" Max.
Mounting Position	Any

BASE PIN CONNECTIONS

Pin 1 -	No Connection
Pin 2 -	Control Grid
Pin 3 -	No Connection
Pin 4 -	Neg. Fil. & Supp.
Pin 5 -	Positive Filament
Pin 6 -	Diode Plate
Pin 7 -	Pentode Plate
Pin 8 -	Screen Grid

RMA Basing 8C0-0-0

from RMA release #467A,
 Jan. 31, 1947

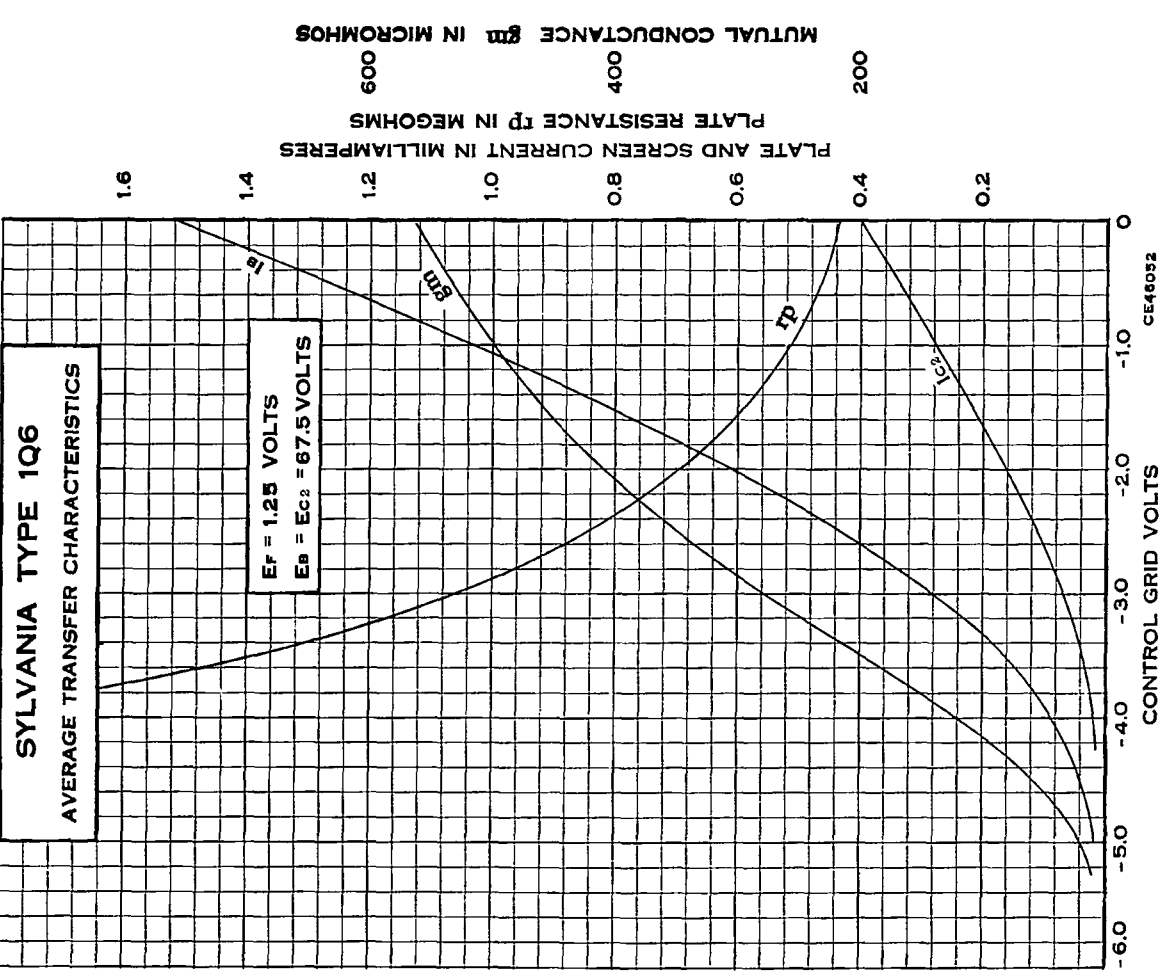
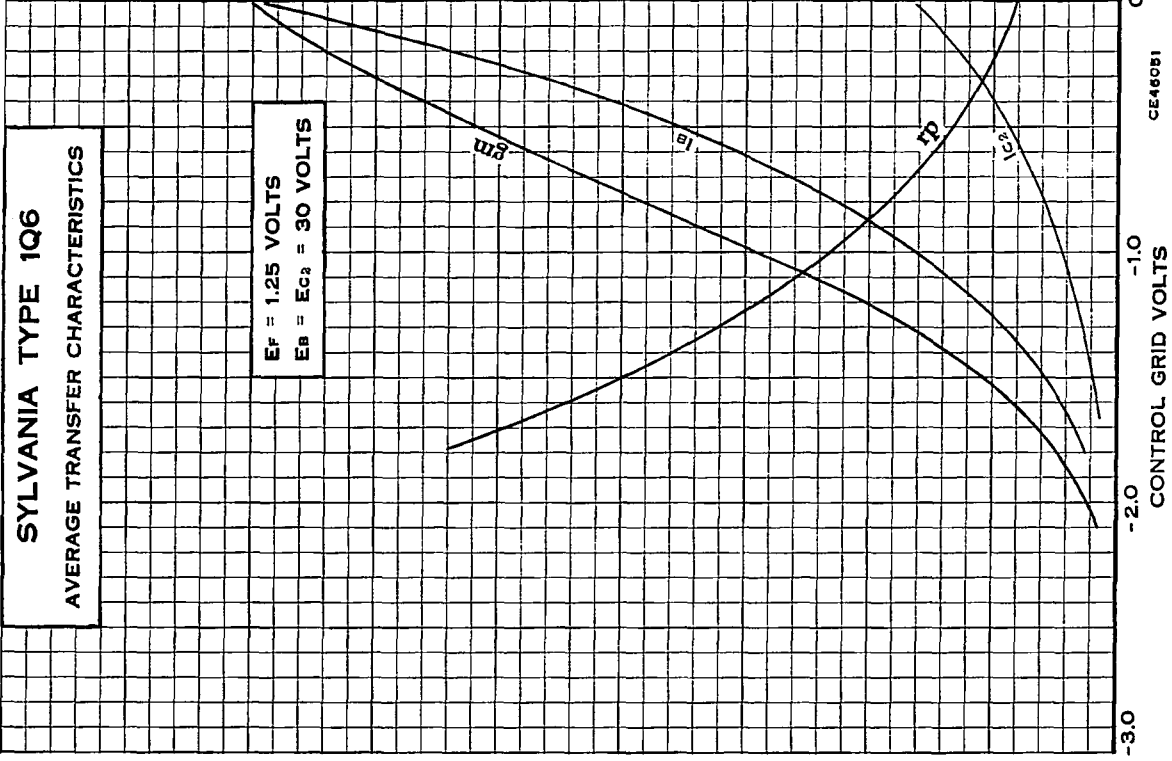
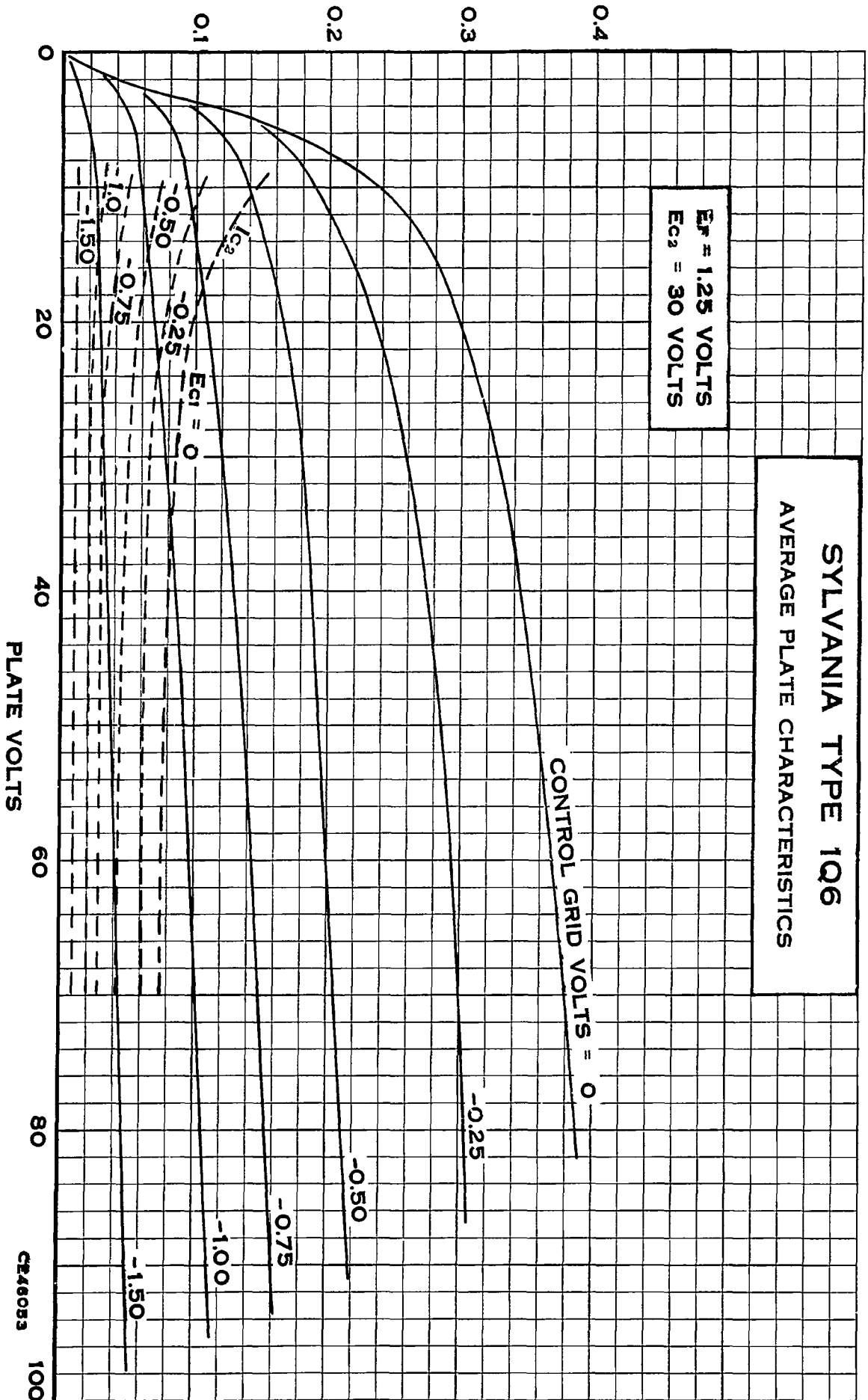


PLATE AND SCREEN CURRENT IN MILLIAMPERES



AVERAGE PLATE CHARACTERISTICS

Ec2 = 67.5 VOLTS

PLATE AND SCREEN CURRENT IN MILLIAMPERES

