

RETMA Registration Data
TYPE 1AR5/1S5-SF
DIODE PENTODE

MECHANICAL DATA

Cathode coated filament
Outline drawing 5-2, Bulb T-5 1/2
Base E7-1, Miniature Button 7-pin
Maximum diameter 3/4"
Maximum seated height 1 7/8"
Maximum overall length 2 1/8"
Pin connections Basing 3AU
 Pin 1 - Negative filament, Pin 4 - Grid #2
 Grid #3 Pin 5 - Pentode plate
 Pin 2 - No connection Pin 6 - Grid #1
 Pin 3 - Diode plate Pin 7 - Positive filament
Mounting position Any

ELECTRICAL DATA

Filament Characteristics

Filament voltage (dc) 1.4 volts
Filament current 25 ma

Ratings (Design center values)

Maximum plate voltage 90 volts
Maximum grid #2 voltage 90 volts
Maximum positive grid #1 voltage 0 volts
Maximum cathode current 2.5 ma
Maximum dc diode current 0.25 ma

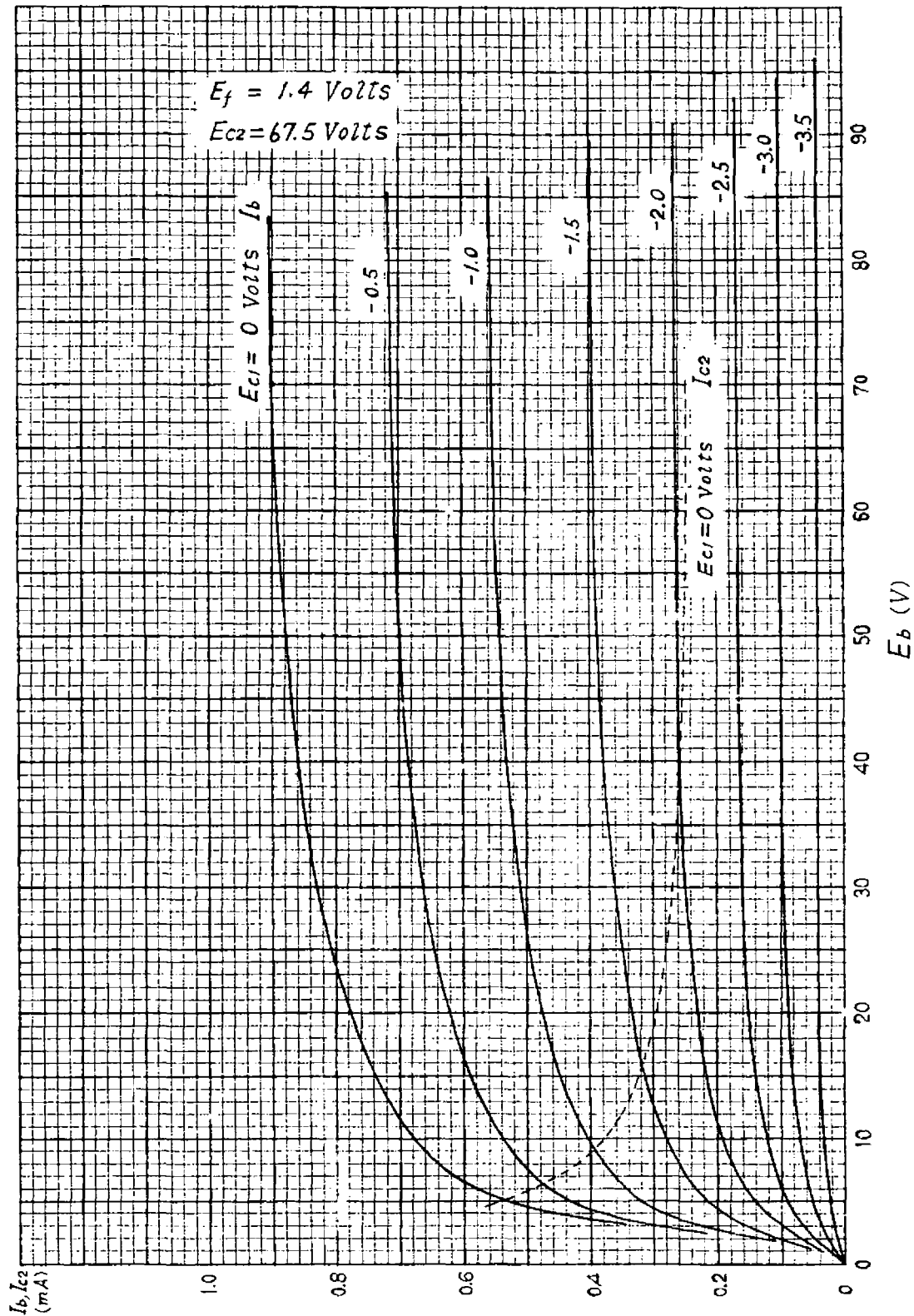
Typical Operating Conditions and Characteristics

Plate voltage 67.5 volts
Grid #2 voltage 67.5 volts
Grid #1 voltage 0 volts
Plate resistance (approx.) 0.8 megohms
Transconductance 500 micromhos
Plate current 0.9 ma
Grid #2 current 0.25 ma

2/10/56 THE FEDERATION OF JAPAN ELECTRIC
 COMMUNICATION INDUSTRIAL ASSOCIATIONS
 "Sankei Kaikan" Bldg. 1AR5/1S5-SF
 3, 1-chome, Ohte-machi, Chiyoda-ku, Tokyo,
 J A P A N

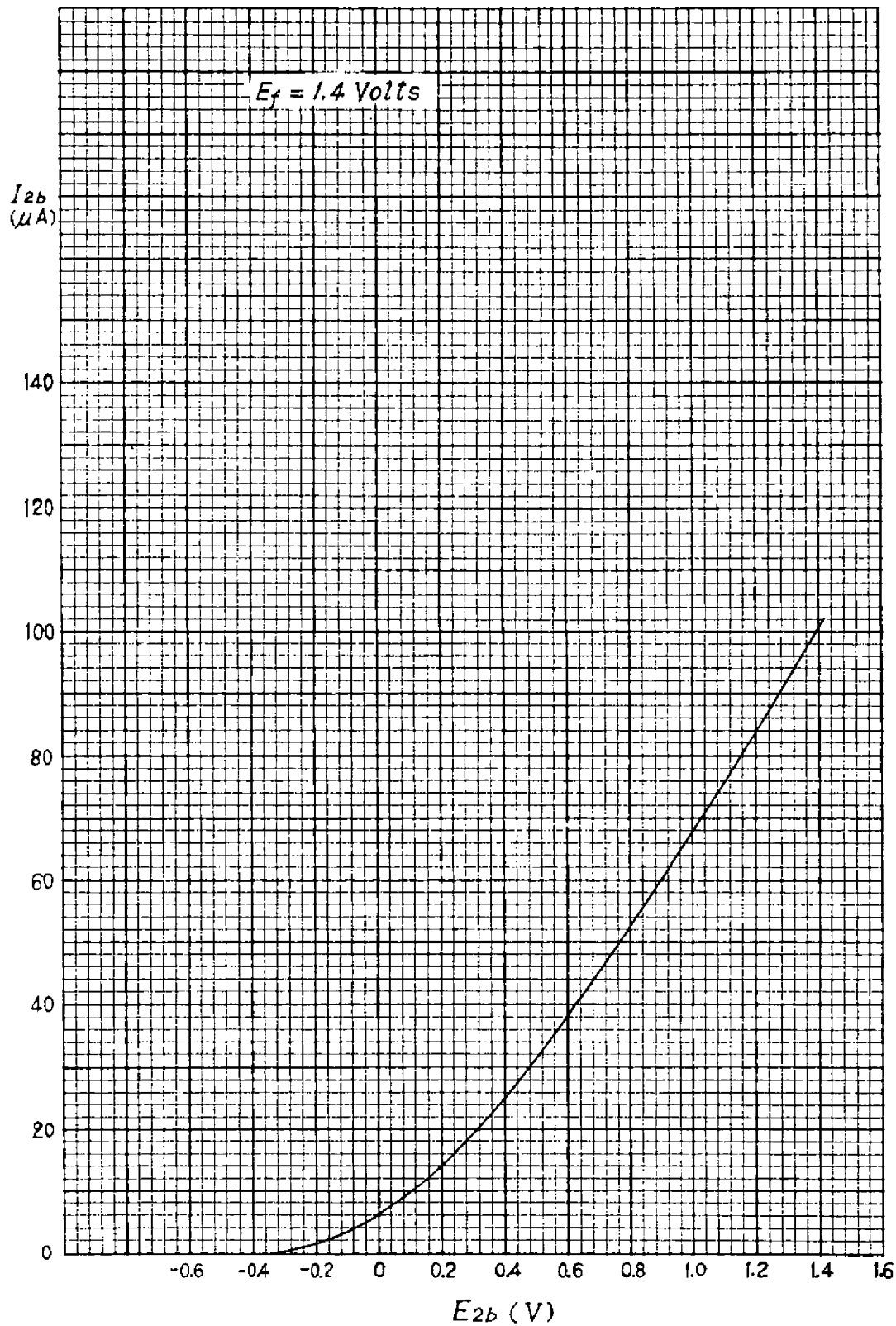
1AR5/1S5-SF & 1AS5/1U5-SF

E_b I_b , I_{c2} Characteristics Curves



1AR5/1S5-SF & 1AS5/1U5-SF

$E_{2b}-I_{2b}$ Characteristics Curves



IAR5/IS5-SF & IAS5/IU5-SF

E_{c1} I_b , I_{c2} , g_m Characteristics Curves

