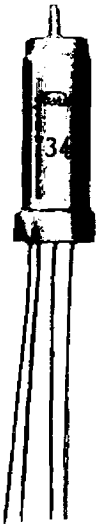
from JEDEC release #4702,
May 18, 1964

Toshiba

TOSHIBA ELECTRON TUBE 5734A

MECHANO-ELECTRONIC TRANSDUCER

The Toshiba 5734A is a heater-cathode type medium-mu triode of micro metal miniature construction with metal shell and ceramic stem designed primarily for use as mechano-electronic transducer in many industrial applications. The 5734A features an actuating stylus which related to the plate shaft, and the angular displacement of the plate shaft changes the distance between the fixed grid and the plate and results in a change in the plate current.



GENERAL DATA

ELECTRICAL :

Cathode: Coated unipotential		
Heater voltage (AC or DC)	6.3	V
Heater current	0.15	A

MECHANICAL :

Maximum over all length (excluding flexible lead)	0.925"
Maximum diameter	0.328"
Bulb	Metal shell
Operating position	Any

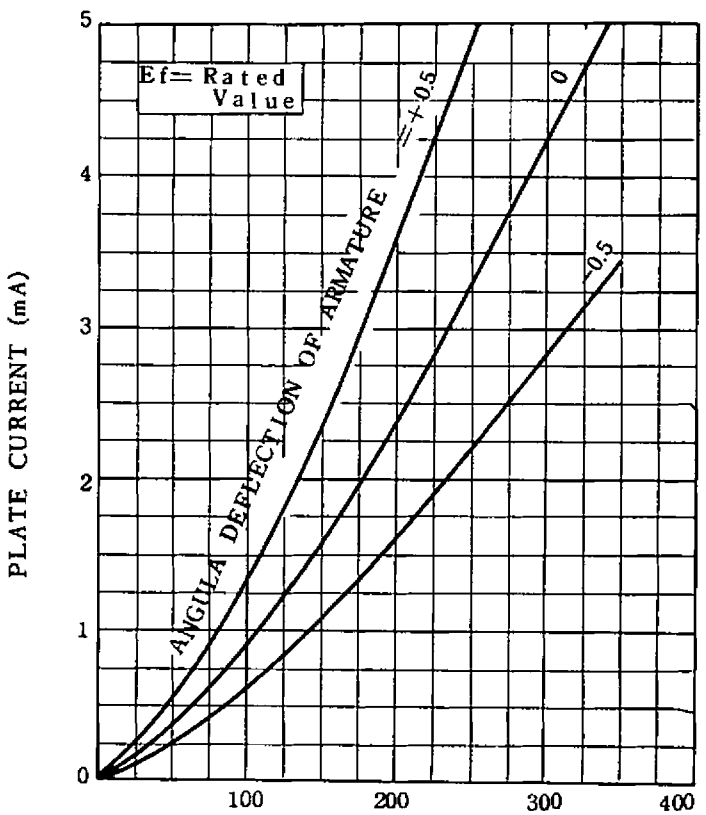
MAXIMUM RATINGS; Design-center values:

DC plate supply voltage	300 max.	V
DC plate current	5 max.	mA
Plate dissipation	0.4 max.	W
Heater-cathode voltage		
Heater positive, total dc and peak	90 max.	V
Heater negative, total dc and peak	90 max.	V
Angular deflection of plate shaft	±0.5 max.	Degree
Bulb temperature at hottest point on bulb surface	300 max.	°C

TYPICAL OPERATION AND CHARACTERISTICS:

DC plate supply voltage	300	V
DC grid voltage	0	V
Amplification factor	20	
Plate resistance	72	KΩ
Transconductance	275	μU
DC plate current	1.5	mA
Load resistance	75	KΩ
Deflection sensitivity	40	V/degree
	2300	V/radian
Moment of inertia of plate	3.4	milligram cm
Rotational compliance of diaphragm	0.013×10^{-3}	radian/dyne cm
	0.075	degree/gram cm

AVERAGE CHARACTERISTICS



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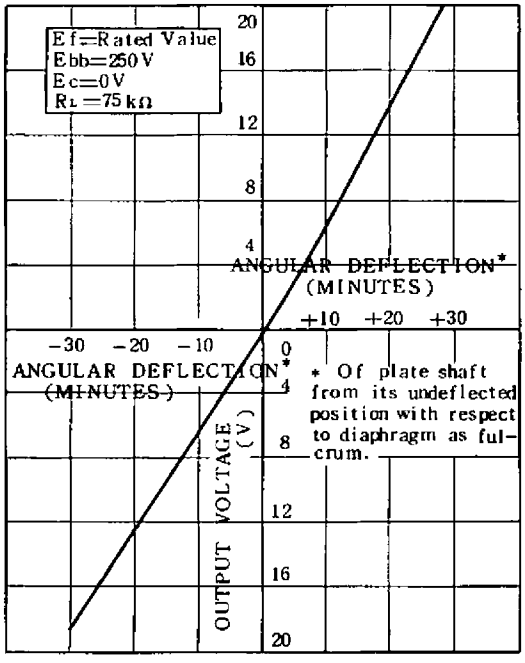
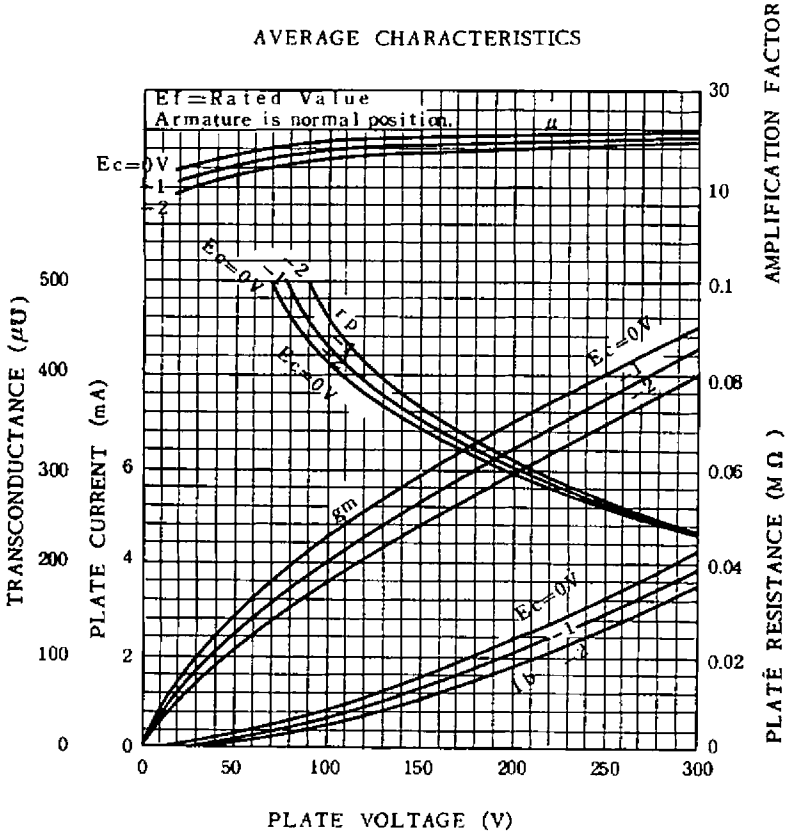


AVERAGE CHARACTERISTICS



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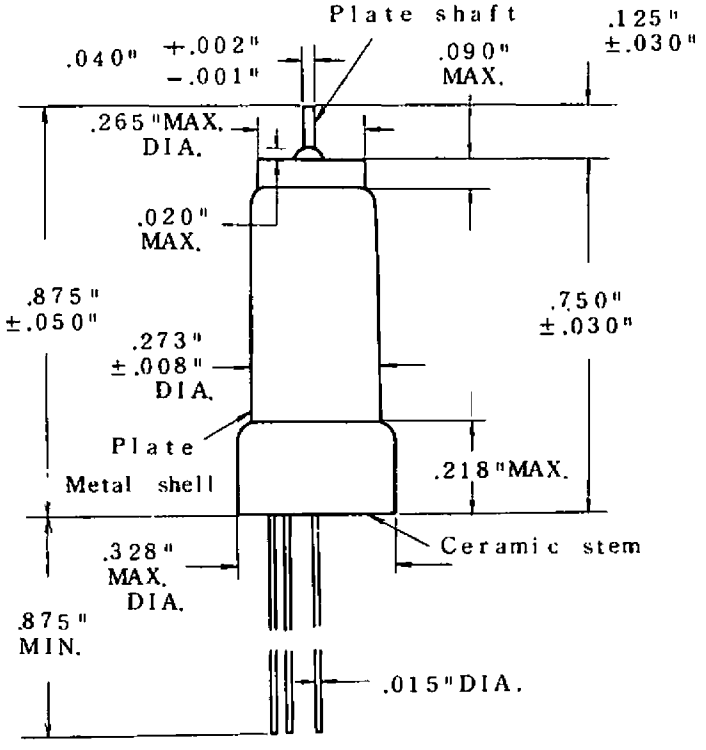
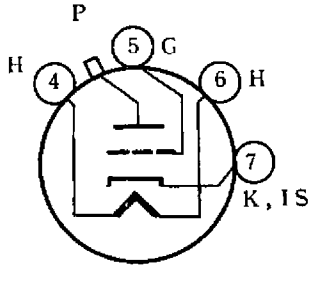
5734A
DIMENSIONAL OUTLINE:

Dimensions in Inches



5734A
BASING DIAGRAM:

Bottom View



Pin 4: Heater
Pin 5: Grid
Pin 6: Heater
Pin 7: Cathode: Internal Shield
P : Plate

All inquiries as to the data should be addressed to Tube and Semiconductor Division, Tokyo Shibaura Electric Co., Ltd., 12, 1-chome, Yuraku-cho, Chiyoda-ku, Hibiya Mitsui Building, Tokyo, Japan.