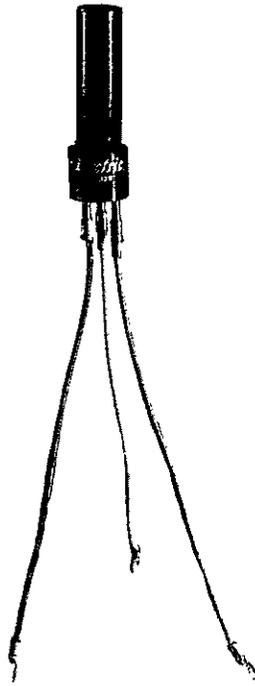


OK for Plant Dept use.
S. J. H.
6/15/50



COLD CATHODE

Western Electric

DESCRIPTION

The 405A is a three-electrode, inert-gas-filled, cold cathode tube for use primarily as a relay in communication circuits. It is also suitable for use in control circuits such as in triggering, counting or switching

apparatus. This tube, because of its small size, flexible connector leads and ease in mounting, may be used to advantage in equipment where space is a factor.

MAXIMUM RATINGS

Peak Anode Voltage . . . . .	.....	165 volts
Average Cathode Current	4	40 milliamperes
Average Life	10000	10 hours

MAXIMUM RATINGS, Absolute Values

Peak Anode Voltage		
Forward		165 volts
Inverse		165 volts
Forward Cathode Current		
Peak		40 milliamperes
Average		15 milliamperes
Averaging Time		1 second
Peak Inverse Anode Current		1 milliampere
Ambient Temperature Limits		-55 to +85 centigrade

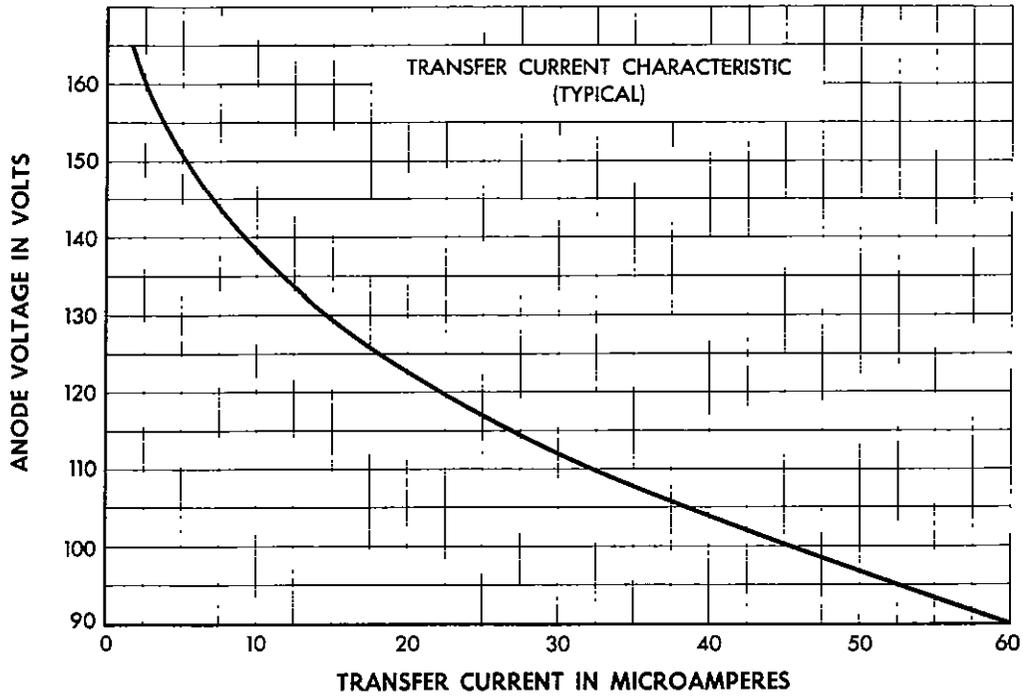
ELECTRICAL DATA

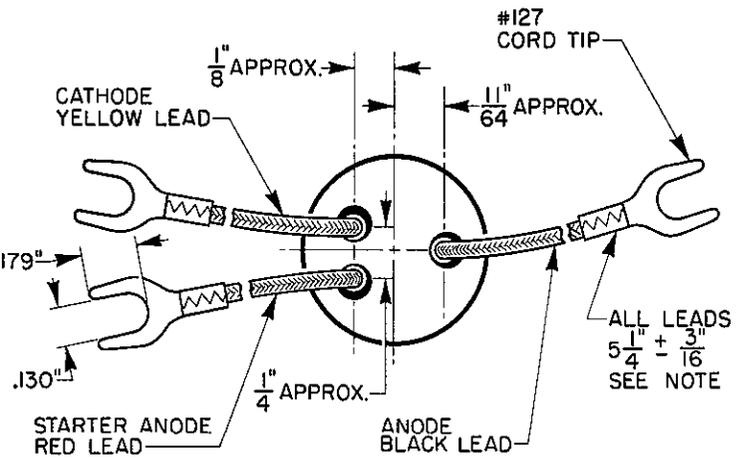
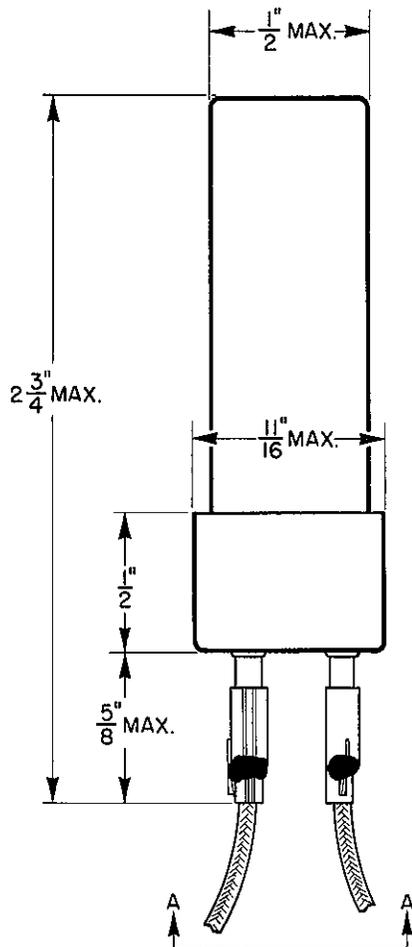
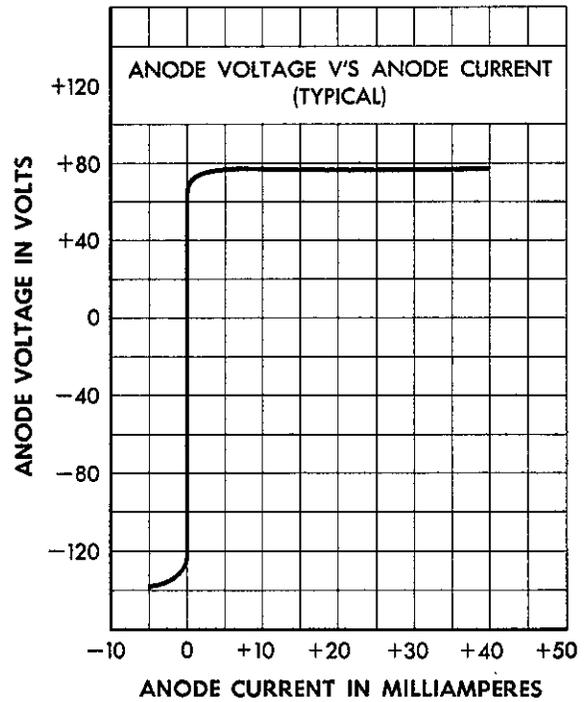
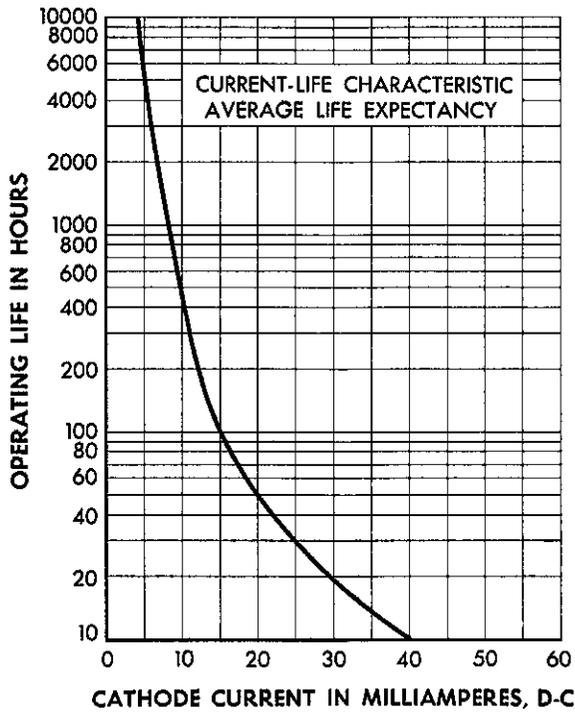
	Min.	Bogey	Max.
Starter Breakdown Voltage*	67	75	89 volts
Starter Voltage Drop at 10 milliamperes	52	60	74 volts
Anode Voltage Drop at 10 milliamperes	66	75	90 volts
Required Transfer Current at 130 Anode Volts (D. C.)	50	...	... microamperes
Deionization Time, Approximate			
Starter Gap . . . . .	...	2	... milliseconds
Main Gap . . . . .	...	8	... milliseconds

MECHANICAL DATA

Mounting Position	Any
Net Weight, Approximate	0.4 ounce

*Limits apply immediately after tube has conducted current. If tube has been idle, these values may be as much as 3 volts higher or lower.





VIEW A-A

NOTE: LEAD LENGTHS SPECIFIED REFER TO LENGTH FROM END OF BASE SHELL TO END OF SPADE.

Western Electric

A development of Bell Telephone Laboratories, the research laboratories of the American Telephone and Telegraph Company and the Western Electric Company.