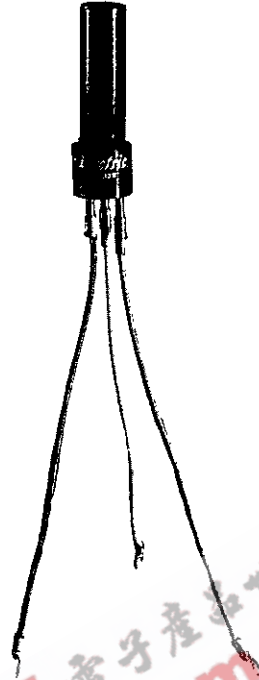


OK for Plant Dept use.
S. J. H.
6/15/50



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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 |

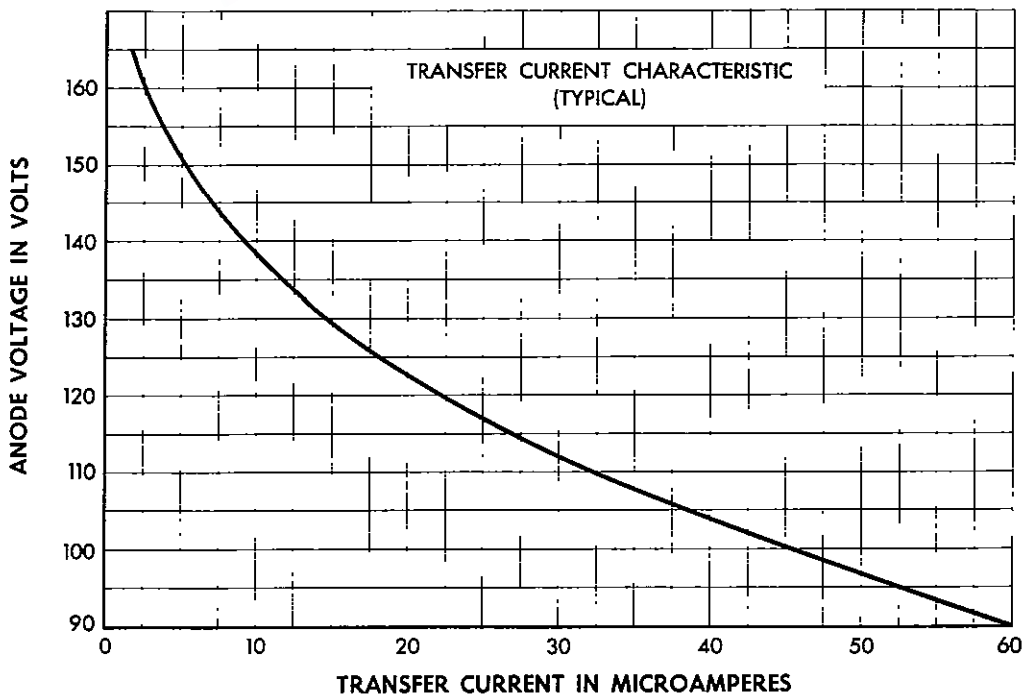
ELECTRICAL DATA

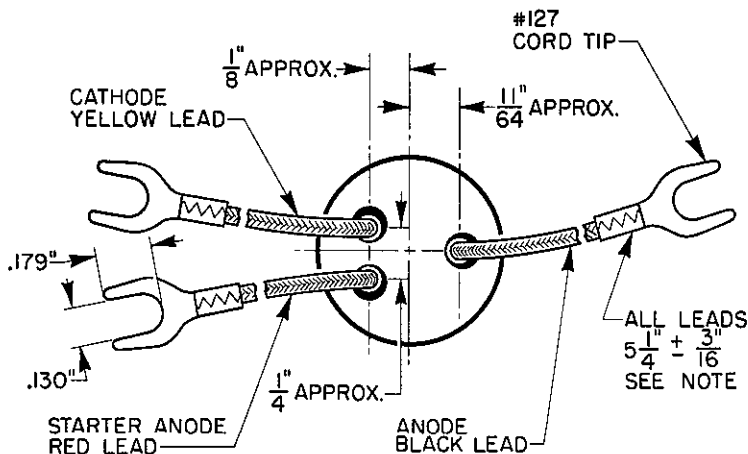
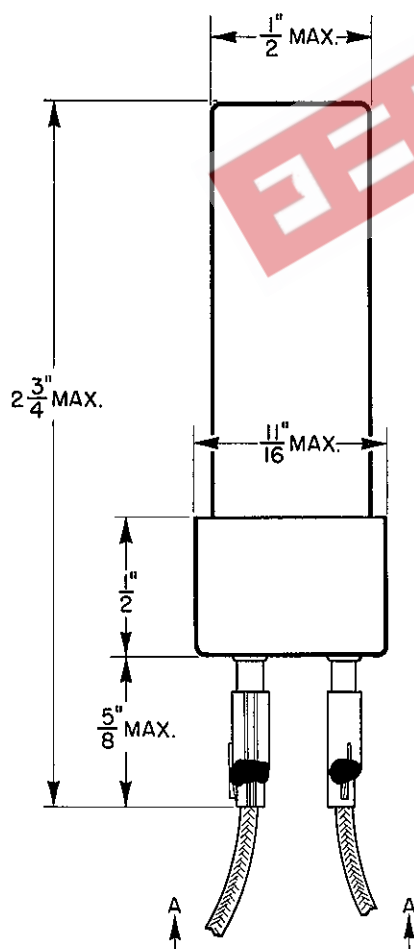
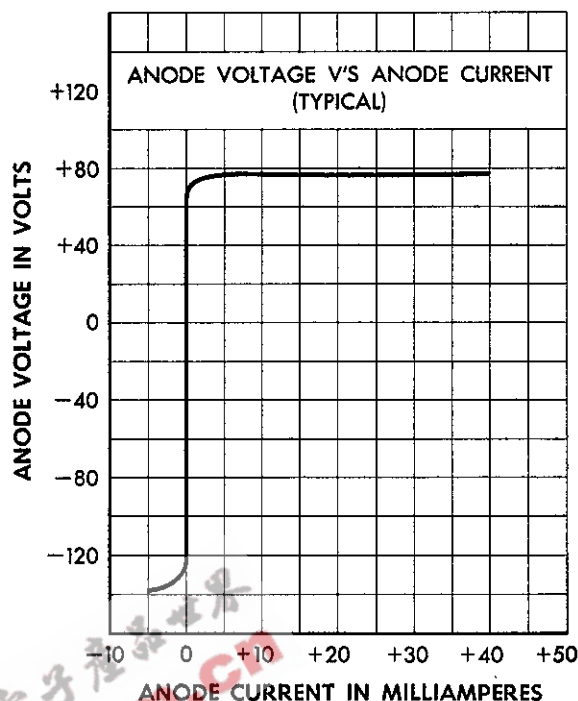
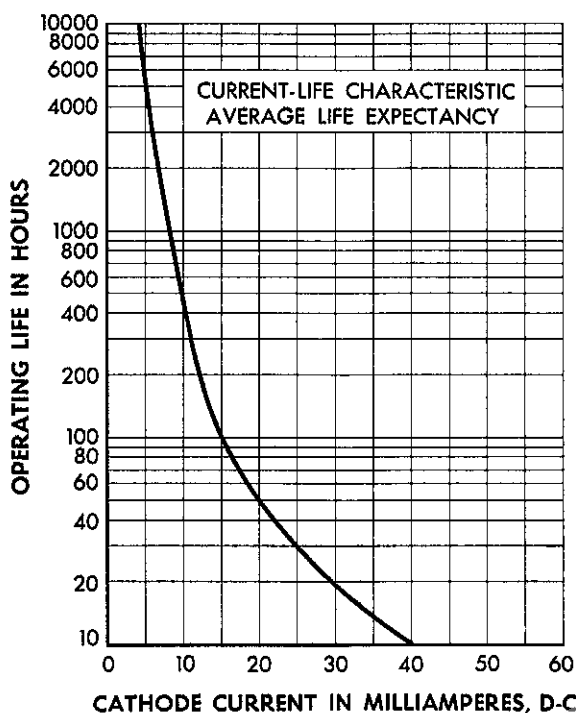
| | Min. | Bogey | Max. |
|----------------------------------------------------------------|------|-------|------------------|
| Starter Breakdown Voltage* | 67 | 75 | 89 volts |
| Starter Voltage Drop at 10 milliamperes | 52 | 60 | 74 volts |
| Anode Voltage Drop at 10 milliamperes | 66 | 75 | 90 volts |
| 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.

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