Bendix Type TG-20

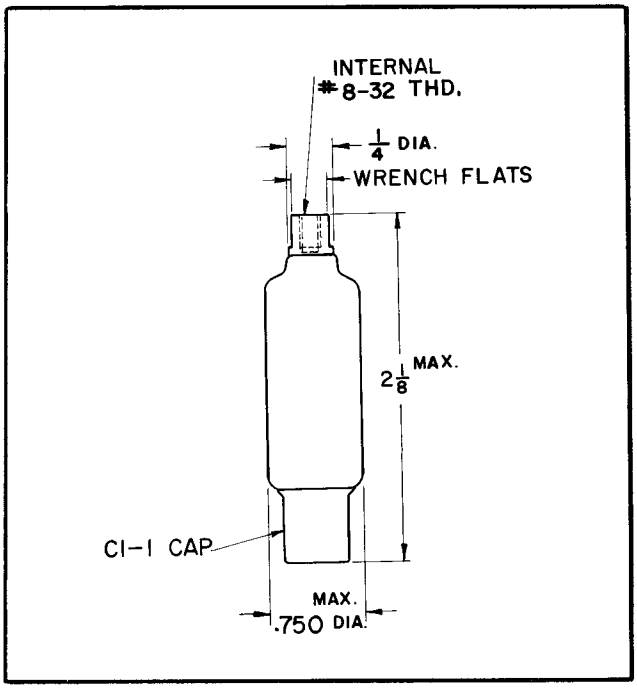
SPARK GAP

OVERVOLTAGE PROTECTION SERVICE

COLD CATHODE
SEALED

AMBIENT FREE

SPARK DISCHARGE
TWO-ELECTRODE



RATINGS & CHARACTERISTICS

Initial Pulse Breakdown*	17 Kv. Min.
Repetitive Pulse Breakdown*	17 Kv. Min.
Ambient Temp.	(—) 55°C
	(+) 85°C
Vibration	10G

DESCRIPTION

This gap is designed to be used as a protective device in high voltage circuits, primarily for use in a line type modulator. It prevents failure of the pulse transformer and associated components through insulation breakdown. Its characteristics are not affected by changes in ambient conditions within its ratings. An internal 8-32 thread at one end permits mounting directly to chassis or to a threaded stud. Normal operation of the gap should be with threaded end at positive polarity.

* Peak voltage breakdown will vary as shape of applied pulse varies, in general, decreasing as rise time increases, as pulse width increases, and as repetition rate increases.

THE Bendix CORPORATION
Red Bank DIVISION, EATONTOWN, NEW JERSEY

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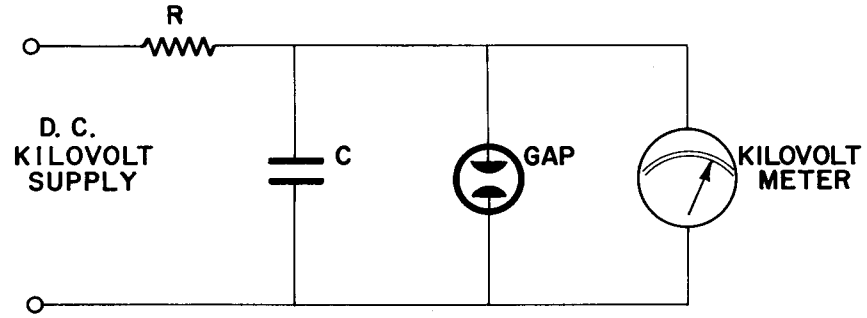
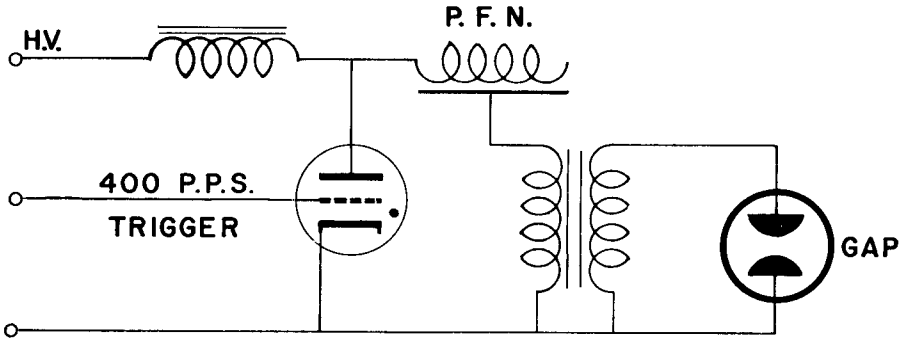
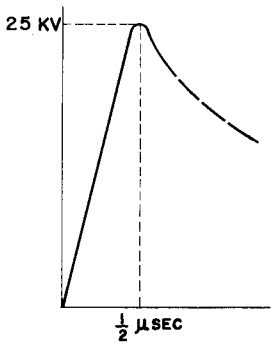


TEST CIRCUIT — STATIC BREAKDOWN



TEST CIRCUIT — PULSE BREAKDOWN



Amplitude will vary as H.V. changes but peak always occurs at about 0.5 microsecond.

APPROXIMATE PULSE SHAPE

Spark Gaps are made in a wide variety for a great many applications: DC Puse, AC, Stand-by, Repetitive operation, Surge protection, and Switching according to customer requirements.

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Red Bank DIVISION, EATONTOWN, NEW JERSEY

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