

The XT series is a range of Gas Plasma voltage dependent switches designed to switch high currents @ high di/dt

Applications

For switching stored electrical energy(such as capacitive discharge) at predetermined voltages.

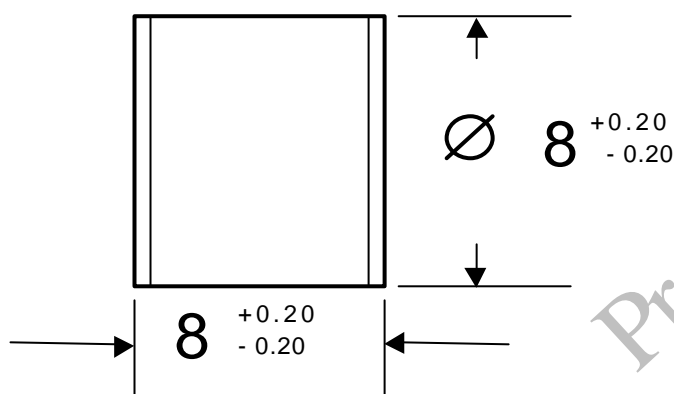
Can be used in gas fuel ignition systems, fluorescent light balasts and Zenon HID firing circuits.

Features

- Ceramic chamber for ultimate reliability.
- Very high switching speed once switching voltage has been reached, resulting in high di/dt to be generated enabling the best performance to be extracted from ignition transformers.
- High lifetime and stability.
- Switching performance is virtually unaffected by changes in ambient temperature.

Description

The VS is a 2 terminal bi-directional, voltage triggered switch. Switching voltages are fixed, depending on the part number selected. The gas Plasma technology affords very fast switching speeds, so significantly better di/dt values can be achieved when compared to those available from silicon based Sidac devices. Combined with the high switching voltages available, step-up transformer sizes and specifications can be reduced, saving cost, size and weight.



XT series

Part No.	Switching voltage	First strike voltage
XT 600	510 - 690 note1	750V Max
XT 800	680 - 920 note1	1000V Max
XT 1000	850 - 1150 note1	1250V Max

notes: (1) measured @ 500Volts / Sec

General characteristics	
Capacitance	>5.0 pF
Switching time	20nS
Peak Current	450A
Number of operations	10 ⁵

Preliminary data

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