

Features

- Formerly a JENSEN+DEVICES product
- Fast switching rate
- High energy, low loss capability
- Wide operating temperature range
- Long service life
- High insulation resistance
- RoHS compliant*

Applications

- Igniters for architectural and automotive Xenon discharge lamps
- Electronic igniters for gas heating and gas domestic appliances, e.g., cookers
- Ignition of ultra-high pressure gas discharge lamps for data and video projectors

Sparctube™ Switching Spark Gap ST-1000 Series

Description

Bourns® Sparctube™ Switching Spark Gap Series is a range of switching spark gaps designed specifically for voltage controlled switching of capacitive discharge circuits where a high energy, low loss, fast rate of switching is required. This series is ideally suited for applications where a capacitive discharge is utilized with a transformer to obtain pulses of very high voltage levels in the order of several thousand volts.

Characteristics

Initial Values:

Static Breakdown Voltage @ 800 V/s ¹

First Ignition Values	< 1200 V
Following Ignition Values	1000 V ±15 %

Electrical Life:

Minimum Number of Switching Cycles	2x10 ⁵
Peak Current (Approx.)	400 A
Maximum Switching Frequency	400 Hz
Breakdown Characteristics @ 1400 V Limit	
First Ignition Values	≤ 1400 V
Delay Time	< 60 ms
Following Ignition Values	1000 V ±20 %

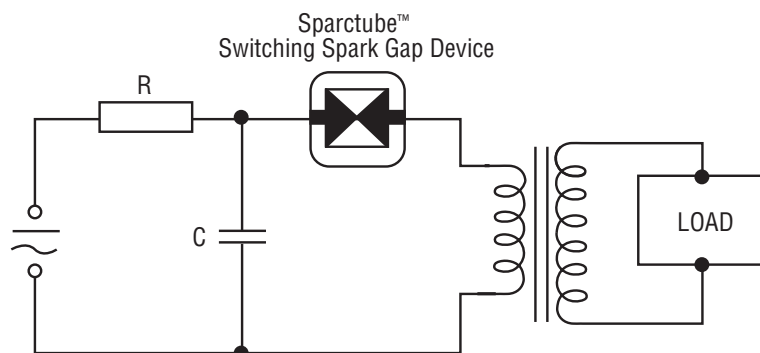
General Data:

Breakdown Time	< 50 ns
Insulation Resistance @100 Vdc	> 100 megohms
Share of Early Ignition Values (< 800 V)	< 1 %
Capacitance	< 1 pF
Operating Temperature Range ²	-40 °C to +160 °C
Storage Temperature Range	-65 °C to +125 °C
Weight (Approx.)	2.3 g
Testing	100 %
Robustness of Terminations	IEC 60068-2-21 ³

Notes:

- ¹ At delivery AQL 0.65 Level II, DIN ISO 2859.
- ² Distribution of switchings: maximum 20 % above +125 °C and 20 % below +20°C.
- ³ Test Ua1 (tensile), Ua2 (thrust), Ub (bending) and Uc (torsion).

Basic Application Circuit



BOURNS®

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www.bourns.com

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

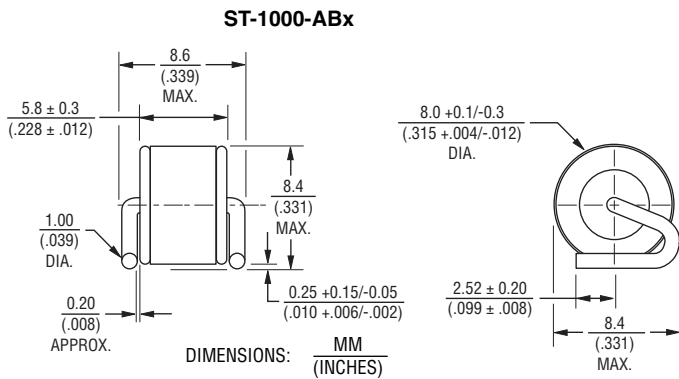
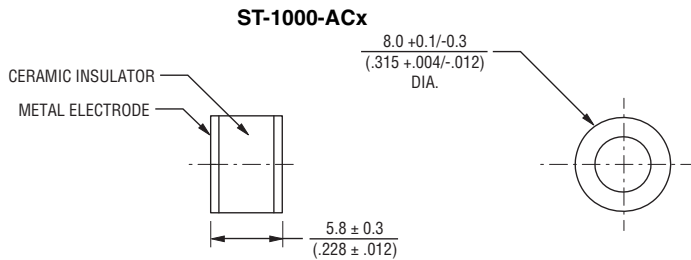
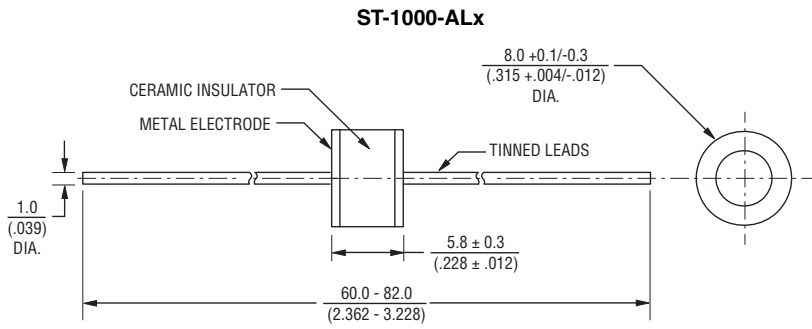
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

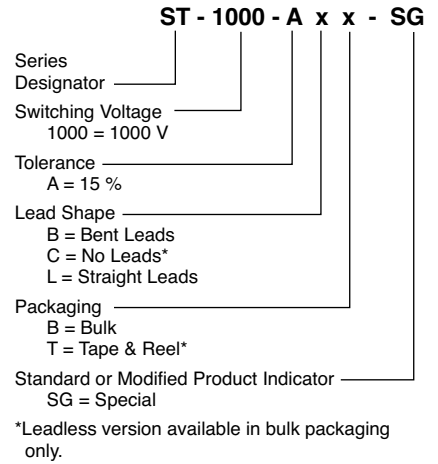
Sparctube™ Switching Spark Gap ST-1000 Series

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Product Dimensions



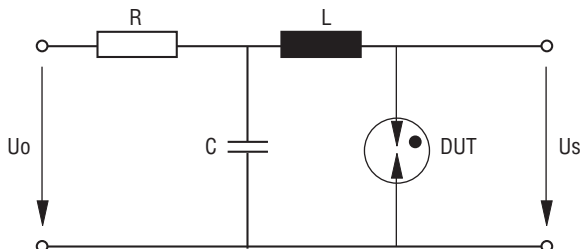
How to Order



Typical Part Marking

B ST 1000 wwy "wwy" = Week and year of production

Test Circuit



U_0 1400 V
 R See Note
 C 100 nF
 L 0.5 μ H
 DUT Device Under Test
 U_s Breakdown Voltages

NOTE: U_0 and R are set to provide suitable conditions for different measurements.

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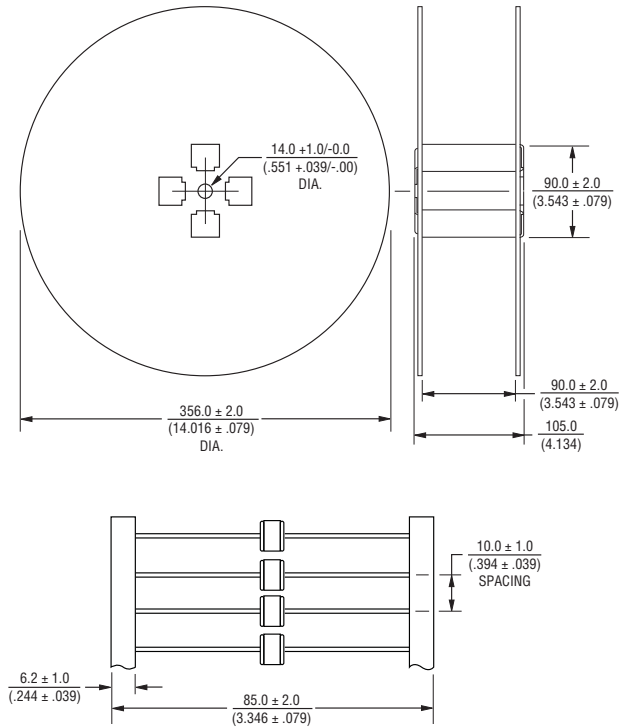
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Packaging Specifications

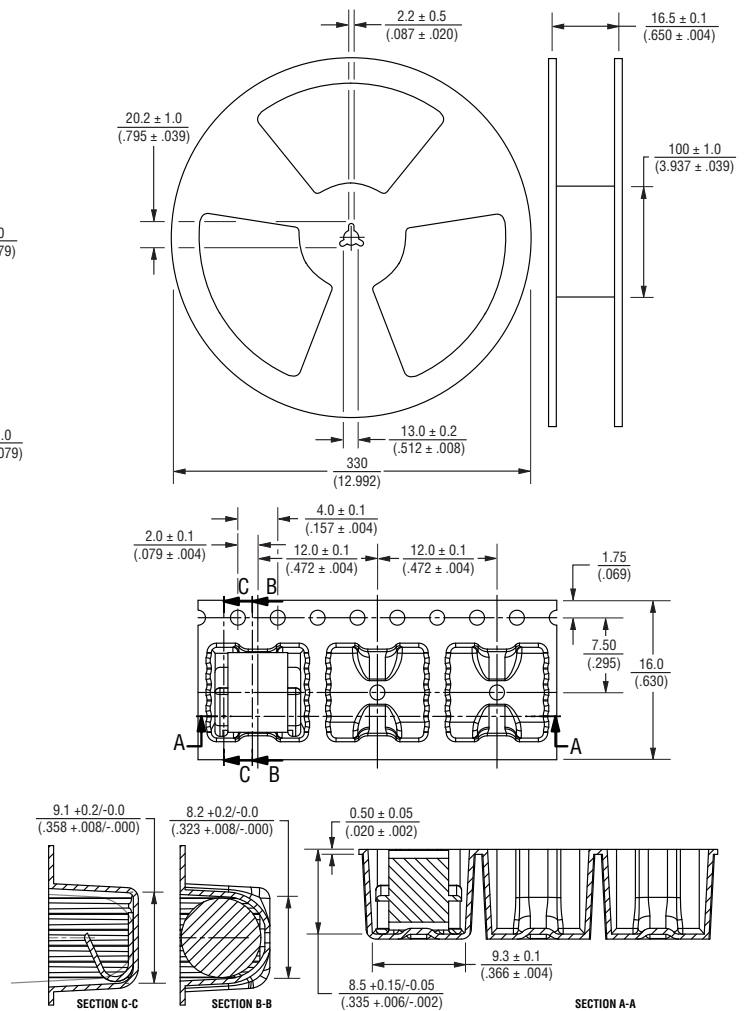
Models ST-1000-ABB, ST-1000-ALB and ST-1000-ACB* ship standard bulk pack, 1,000 pcs./bag. The optional tape and reel packaging contains 1,000 pcs./reel for Model ST-1000-ALT; 500 pcs./reel for Model ST-1000-ABT.

* Available in bulk packaging only.

ST-1000-ALT



ST-1000-ABT



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

REV. 04/17/14

"Sparctube" is a registered trademark of Bourns, Inc. in China and the European Community, with a trademark registration application pending in the U.S. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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