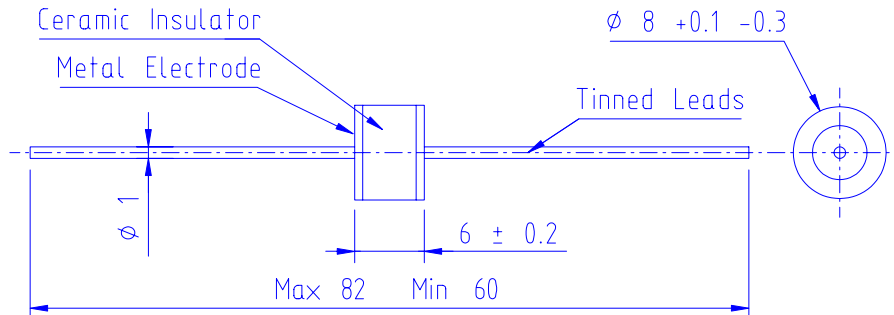


Sparctube™ ST 0800 BLX Z

SWITCHING SPARK GAP 800V: JENSEN 8311/1, preliminary data.



Initial values:

- Static breakdown voltage (@800 V/s)¹⁾
 - First ignition values < 950 V
 - Following ignition values 704 V... 896 V

Electrical life:

- Minimum number of switchings 2×10^5
- Peak current 660 A approx.
- Maximum switching frequency 500 Hz
- Breakdown characteristics (@1000V limit)
 - First ignition values ≤ 1000 V
 - Delay time < 60 ms
- Following ignition values:
 - 0 < ignitions < 50 000 704 V... 920 V
 - ignitions < 200 000 680 V... 920 V

General data:

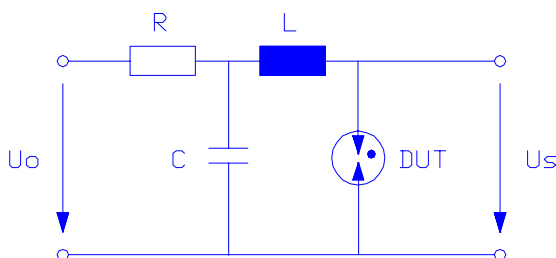
- Insulation resistance (@100 Vdc) > 100 MΩ
- Share of early ignition values (500V < U_s < 680V) < 1 %
- (U_s ≤ 500V) 0%
- Breakdown time < 50 ns
- Residual voltage (@50 ns) < 300 V
- Capacitance < 1 pF
- Operating temperature range³⁾ -40°C to 160°C
- Storage temperature range -65°C to 125°C
- Weight 2.3 g approx.
- Testing 100%

- Marking:  ST 0800 wwy (week & year of prod.)

- Ordering code: ST 0800 BLX Z
X = B for bulk, X = T for tape and reel.

Test circuit

U ₀	1000V (+0V -5V) ²⁾
R	2.5 MΩ
C	120 nF
L	0.12 μH
DUT	Device under test
U _s	Breakdown voltages



Note 1: @ delivery AQL 0,65 level II, DIN ISO 2859

Note 2: U₀ is set to provide maximum 1000V across the Sparctube™

Note 3: Distribution of switchings: Maximum 20 % above 125 °C and 20% below 20 °C .