

Switching Spark Gap

Series/Type:	SSG3X-1
Ordering code:	B88069X0260xxxx
Date:	22.02.2005
Version:	Issue 06

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Switching Spark Gap

SSG3X-1

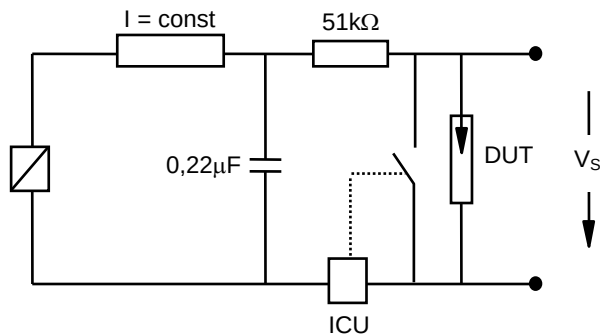
Ordering code: B88069X0260xxxx^{a)}

Features	Applications
Extremely Long Life Time	Ignition of HID Lamps for Video Projection
Stable Performance over Life	
Insensitive Performance against Variations in Temperature	
Very Low Switching Losses	
Very Short Breakdown Time	
High Reliability by Robust Design	
RoHS Compliance	

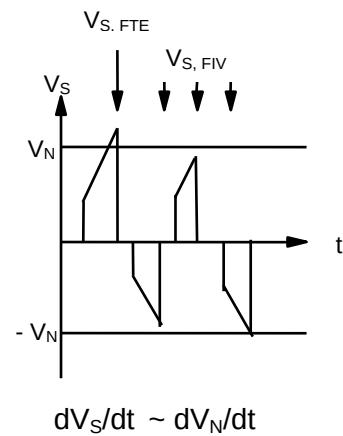
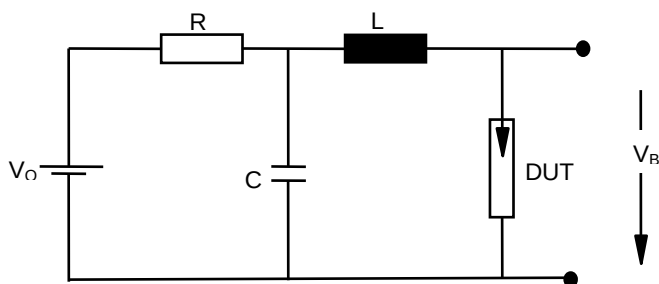
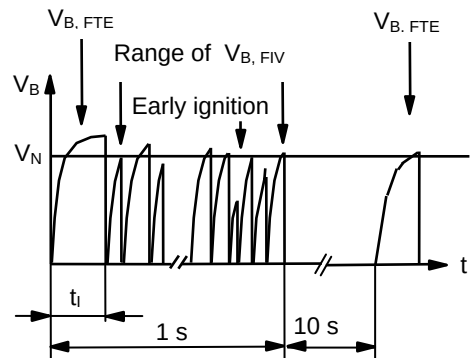
* Footnotes see page 2

Nominal breakdown voltage V_N	3000	V
Initial values ²⁾		
Static breakdown voltage V_S ¹⁾		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 3900	V
Following ignition values $V_{S, FIV}$	2550 ... 3540	V
Electrical life time ³⁾		
Breakdown voltage V_B		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 4200	V
Following ignition values $V_{B, FIV}$	2400 ... 3600	V
Switching operations at 0 ... +100 °C	1 000 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	4200	V
Loading resistance R	4000	k Ω
Discharge capacitance C	1.5	nF
Inductance L	7.5	μ H
Discharge peak current I_P	50	A
General technical data		
Insulation resistance at 100 V	> 100	M Ω
Early ignition values below 2400 V	≤ 1	%
Breakdown time	≤ 50	ns
Maximum switching frequency	400	Hz
Weight	~ 2	g
Marking, red	EPCOS 3000 YY O 3000 - Nominal voltage YY - Year of production O - Non radioactive	

- a) xxxx = S102 (100 pcs. on 5 taped stripes)
 = T502 (500 pcs. on tape and reel)
- 1) At delivery AQL 0,65 level II, DIN ISO 2859
 2) Page 2, Fig. 1 and 2
 3) Page 2, Fig. 3 and 4

Fig. 1: QC- test circuit (100% outgoing inspection)


DUT device under test
 ICU ignition control unit (sensitivity 10 .. 30 μ A)
 Discharge current 10 – 20 mA

Fig. 2: Explanation of measurands

Fig. 3: QC- test circuit (sampling inspection at 25 °C)

Fig. 4: Explanation of measurands


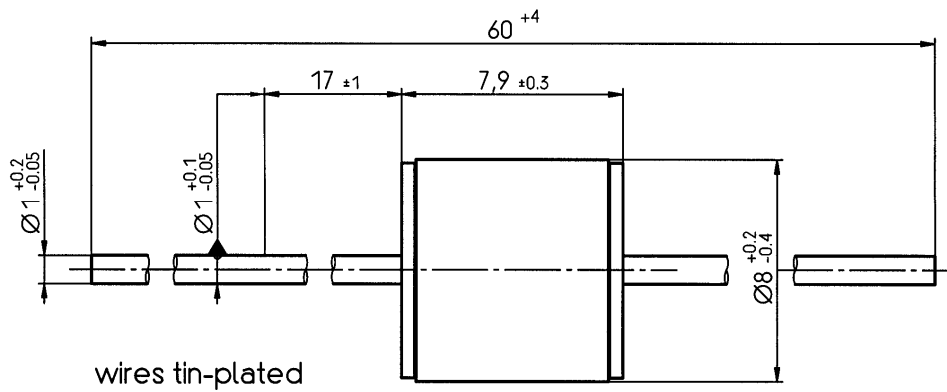
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Not to scale

Dimensions in mm

Non controlled document

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