



# Switching spark gaps, Switching Spark Gaps

**Series/Type: SSG3X1**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B88069X0260T502		2020-01-17	2020-04-24	2020-07-24
B88069X0260S102		2019-05-24	2019-08-31	2019-11-30

Please contact your nearest TDK sales office if you need support in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.tdk-electronics.tdk.com/sales](http://www.tdk-electronics.tdk.com/sales).

## Important notes

The following applies to all products named in this publication:

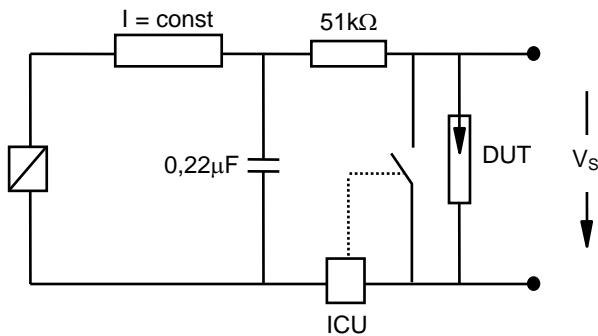
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Features	Applications
Extremely Long Life Time	Ignition of HID Lamps for Video Projection
Stable Performance over Life	
Insensitive Performance against Variations in Temperature	
Very Low Switching Losses	
Very Short Breakdown Time	
High Reliability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

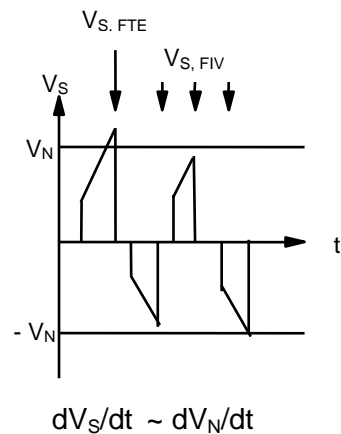
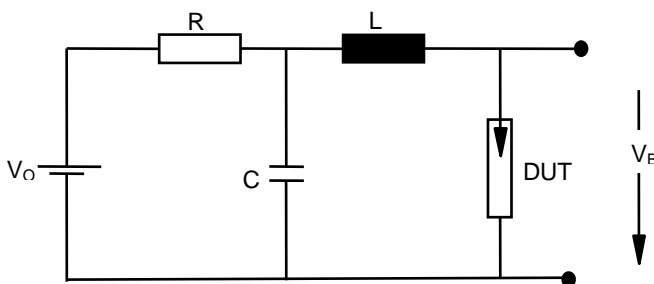
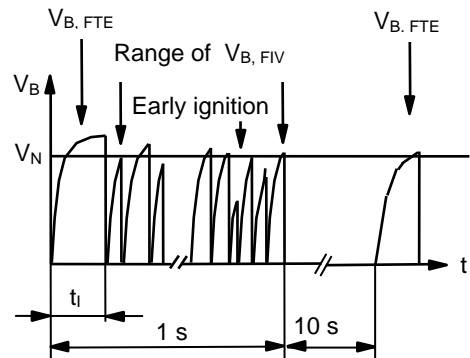
\* Footnotes see page 2

Nominal breakdown voltage $V_N$	3000	V
Initial values <sup>2)</sup>		
Static breakdown voltage $V_S$ <sup>1)</sup>		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	$\leq 3900$	V
Following ignition values $V_{S, FIV}$	2550 ... 3540	V
Electrical life time <sup>3)</sup>		
Breakdown voltage $V_B$		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	$\leq 4200$	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 $\Omega$
Discharge capacitance C	1.5	nF
Inductance L	7.5	$\mu$ H
Discharge peak current $I_P$	50	A
General technical data		
Insulation resistance at 100 V	$> 100$	M $\Omega$
Early ignition values below 2400 V	$\leq 1$	%
Breakdown time	$\leq 50$	ns
Maximum switching frequency	400	Hz
Weight	$\sim 2$	g
Marking, red	<b>EPCOS 3000 YY O</b> 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

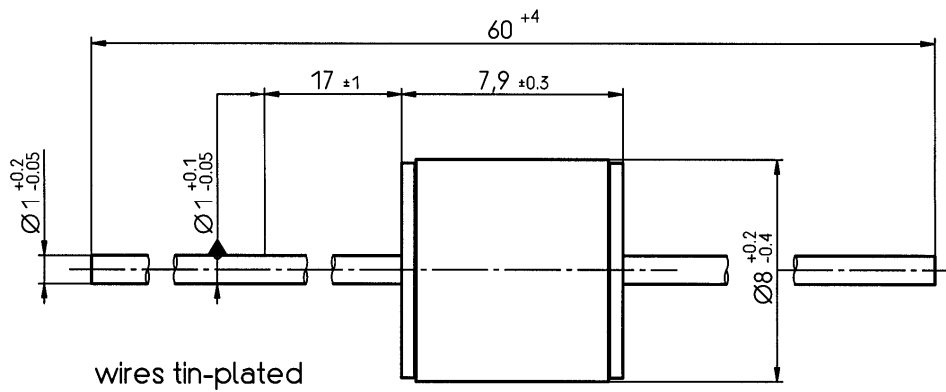
**Fig. 1: QC- test circuit (100% outgoing inspection)**


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 μA)  
 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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