

Switching Spark Gap

Series/Type: SSG3X-1

Ordering code: B88069X0260xxxx

Date: 22.02.2005 Version: Issue 06

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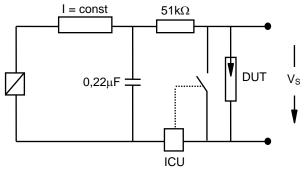
Features		Applications		
Extremely Long Life Time	Ignition of H	Ignition of HID Lamps for Video Projection		
Stable Performance over Life				
Insensitive Performance against Variations in Temperature				
Very Low Switching Losses				
Very Short Breakdown Time				
High Reliability by Robust Design				
RoHS Compliance				
* Footnotes see page 2				
lominal 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 Following ignition values V _{S, FIV}		≤ 3900 2550 3540	V	
Electrical life time $^{3)}$ Breakdown voltage V_B First ignition value $V_{B,FTE}$ after 24 hours in darkness Following ignition values $V_{B,FIV}$		≤ 4200 2400 3600	V	
Switching operations at 0 +100 °C		1 000 000	Ignitions	
Test circuit parameters Open circuit voltage V ₀ Loading resistance R Discharge capacitance C Inductance L Discharge peak current I _P		4200 4000 1.5 7.5 50	V kΩ nF μH A	
General technical data Insulation resistance at 100 V Early ignition values below 2400 V Breakdown time Maximum switching frequency Weight		> 100 ≤ 1 ≤ 50 400 ~ 2	MΩ % ns Hz g	
Marking, red		EPCOS 3000 YY O 3000 - Nominal voltage YY - Year of production O - Non radioactive		

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

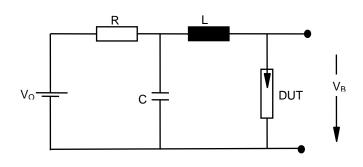


Fig. 2: Explanation of measurands

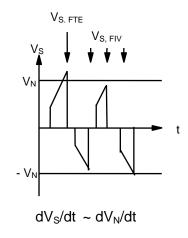
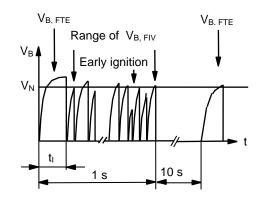


Fig. 4: Explanation of measurands



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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

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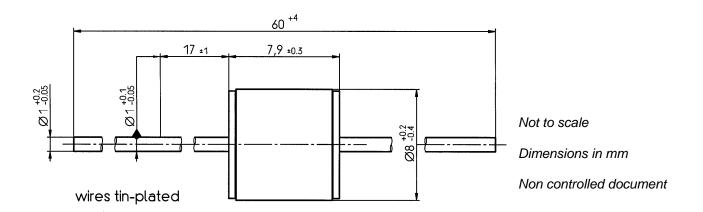
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