

Switching spark gap

SSG with lead wires

Series/Type: FS08X-1GH

 Ordering code:
 B88069X0340xxxx a)

 Version/Date:
 Issue 08 / 2006-08-30

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Switching spark gap	B88069X0340xxxx ^{a)}
SSG with load wires	ESUSA-1CH

Features		Applications	
-	Extremely long life time	-	Ignition of HID lamps
-	Stable performance over life		
-	Insensitive performance against variations in temperature		
-	Very low switching losses		
-	Very short breakdown time		
-	High reliability by robust design		
-	RoHS compatibility		

Electrical specifications

Nominal breakdown voltage V _N	800	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}	≤ 950 704 896	V
Electrical life time $^{3)}$ Breakdown voltage V_B up to 100 000 Ignitions First ignition value $V_{B,FTE}$ after 24 hours in darkness Ignition time t_I at V_0 during life Following ignition values $V_{B,FIV}$ at 50 000 Ignitions Following ignition values $V_{B,FIV}$	≤ 1000 ≤ 60 704 920 680 920	V ms V V
Switching operations in total at – 40; +150 °C, each at + 25; +125 °C, each	100 000 10 000 40 000	Ignitions Ignitions Ignitions
Test circuit parameters Open circuit voltage V₀ Loading resistance R Discharge capacitance C Inductance L Discharge peak current I₀	1000 56 114 0.13 ~ 660	V kΩ nF μH A
General technical data Insulation resistance at 100 V Early ignition values between 530 680 V Breakdown time Maximum loading current Weight	> 100 ≤ 1 ≤ 50 50 ~ 2	MΩ % ns mA g
Marking, blue positive	EPCOS 800 WWY O 800 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

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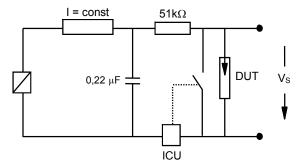
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- a) xxxx = T502 (taped and reeled with 500 pcs.) = T103 (taped and reeled with 1000 pcs.)
- 1) At delivery AQL 0,65 level II, DIN ISO 2859
- 2) Page 2, Fig. 1 and 2
- 3) Page 2, Fig. 3 and 4

Figures

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)

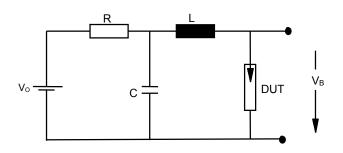


Fig. 2: Explanation of measurands

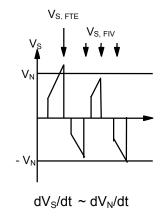
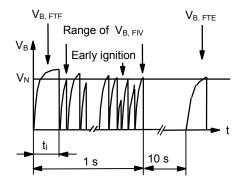


Fig. 4: Explanation of measurands



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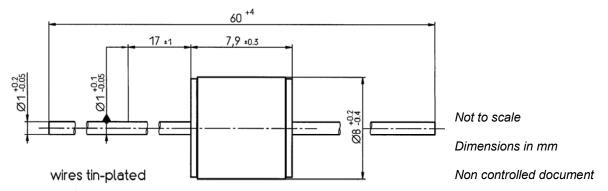


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Dimensional Drawing



Cautions and warnings

- Switching spark gaps may be used only within their specified values.
- Damaged switching spark gaps must not be re-used.

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