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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Switching spark gap

SSG with lead wires

Series/Type: Ordering code: FS08X-1GH

B88069X0340xxxx a) Version/Date: Issue 08 / 2006-08-30

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FS08X-1GH

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 $V_{S,FTE}^{-1}$ after 24 hours in darkness Following ignition values $V_{S,FIV}^{-1}$	≤ 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 V ₀ Loading resistance R Discharge capacitance C Inductance L Discharge peak current I _P	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 800 - Nominal voltage WW - Calendar week of Y - Year of production O - Non radioactive	of production

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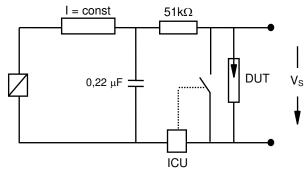
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- 1) At delivery AQL 0,65 level II, DIN ISO 2859
- ²⁾ Page 2, Fig. 1 and 2
- 3) Page 2, Fig. 3 and 4

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)

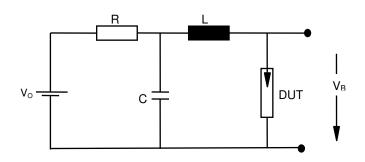


Fig. 2: Explanation of measurands

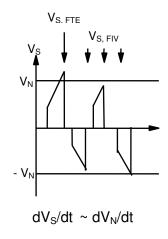
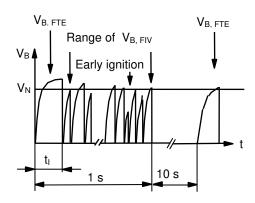


Fig. 4: Explanation of measurands



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a) xxxx = T502 (taped and reeled with 500 pcs.)
 = T103 (taped and reeled with 1000 pcs.)

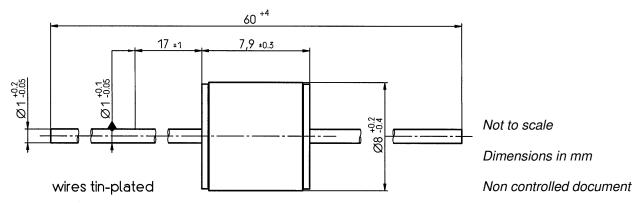


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Dimensional Drawing



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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