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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.

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## Switching Spark Gap

**Series/Type:** FS08X-1JG  
**Ordering code:** B88069X3560T502  
Date: 16.06.2004  
Version: Issue 05

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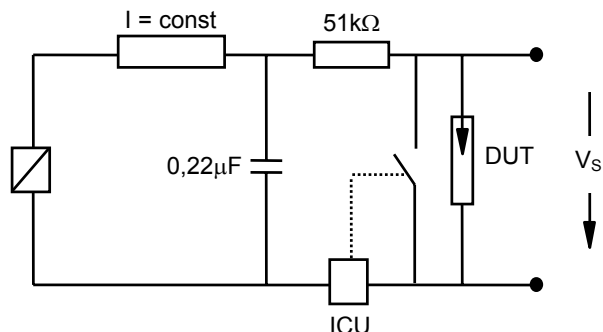
Nominal breakdown voltage $V_N$	800	V
Initial values <sup>2)</sup>		
Static breakdown voltage $V_S$ <sup>1)</sup>		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 950	V
Following ignition values $V_{S, FIV}$	704 ... 896	V
Electrical life time <sup>3)</sup>		
Breakdown voltage $V_B$		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 1000	V
Ignition time $t_i$ at $V_0$ during life	≤ 60	ms
Following ignition values $V_{B, FIV}$	680 ... 920	V
Switching operations		
at -40 °C	40 000	Ignitions
at +25; 125; 150 °C	200 000	Ignitions
Test circuit parameters		
Open circuit voltage $V_0$	1000	V
Loading resistance R	68	kΩ
Discharge capacitance C	100	nF
Inductance L	0.5	μH
Discharge peak current $I_P$	~ 400	A
General technical data		
Max. static breakdown voltage at 100 kV/s	1300	V
Insulation resistance at 100 V	> 100	MΩ
Early ignition values below 680 V	≤ 1	%
Breakdown time	≤ 50	ns
Maximum switching frequency	400	Hz
Maximum loading current	50	mA
Weight	~ 2	g
Marking, blue	<b>EPCOS 800 WWY O</b> 800 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

<sup>1)</sup> At delivery AQL 0,65 level II, DIN ISO 2859

<sup>2)</sup> Page 2, Fig. 1 and 2

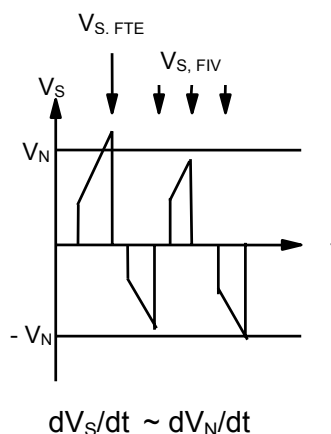
<sup>3)</sup> Page 2, Fig. 3 and 4

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

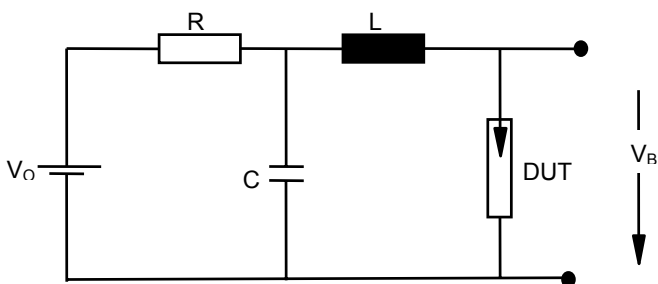


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 µA)  
 Discharge current 10 – 20 mA

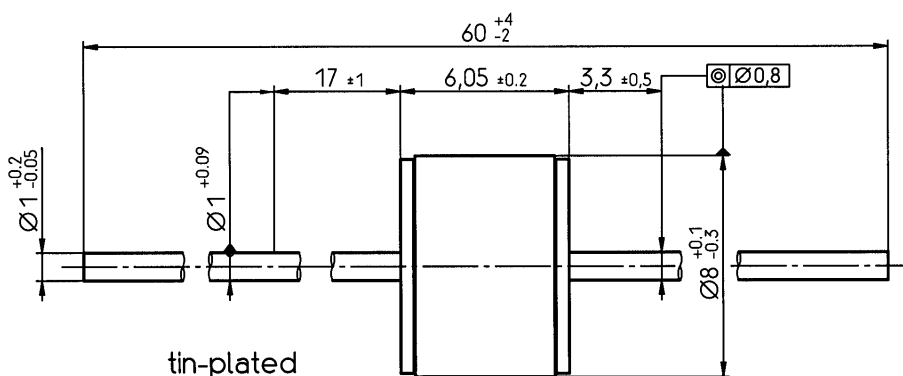
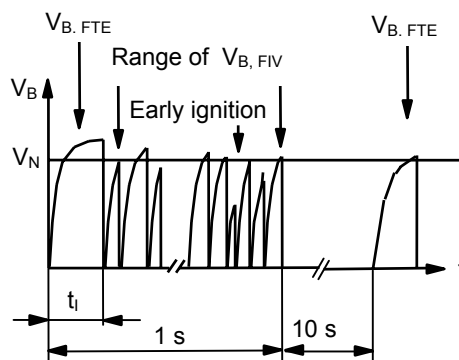
**Fig. 2: Explanation of measurands**



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



**Fig. 4: Explanation of measurands**



Not to scale  
 Dimensions in mm  
 Non controlled document

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