

Switching Spark Gap

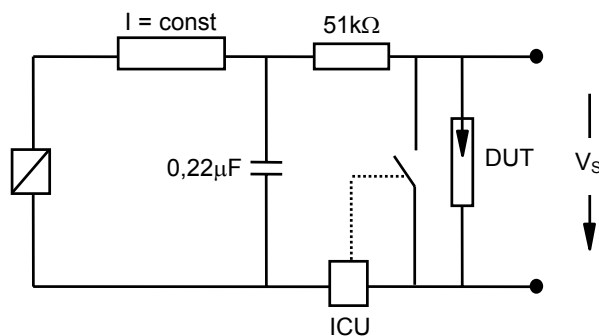
FS04X-1JM

Ordering code: **B88069X0400S102**

Nominal breakdown voltage $V_N$	400	V
Initial values		
Static breakdown voltage $V_S$ <sup>1) 2)</sup>		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 460	V
Following ignition values (selection limits)	360 ... 420	V
Following ignition values $V_{S, FIV}$	350 ... 430	V
Breakdown voltage $V_B$ (measuring time 200 ms) <sup>4)</sup>		
First ignition value $V_{B, FTE}$	≤ 460	V
Following ignition values $V_{B, FIV}$	340 ... 460	V
Electrical life time <sup>3)</sup>		
Breakdown voltage $V_B$		
First ignition value $V_{B, FTE}$ initial after 24 hours in darkness	≤ 460	V
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 500	V
Following ignition values $V_{B, FIV}$	340 ... 460	V
Switching operations		
at - 40 °C            Ignition time $t_i$ ≤ 60 ms <sup>5)</sup>	60 000	Ignitions
at - 40 °C            Ignition time $t_i$ ≤ 200 ms	100 000	Ignitions
at +25 °C            Ignition time $t_i$ ≤ 60 ms	100 000	Ignitions
at +25 °C            Ignition time $t_i$ ≤ 200 ms	200 000	Ignitions
at +125 °C           Ignition time $t_i$ ≤ 60 ms	200 000	Ignitions
Test circuit parameters		
Open circuit voltage $V_0$	500	V
Loading resistance R	10	kΩ
Discharge capacitance C	680	nF
Inductance L	0.5	μH
Discharge peak current $I_p$	~ 500	A
General technical data		
Insulation resistance at 100 V	> 100	MΩ
Early ignition values below 340 V	≤ 2	%
Breakdown time	≤ 50	ns
Maximum switching frequency	200	Hz
Maximum loading current	50	mA
Weight	~ 2	g
Marking, blue	<b>EPCOS 400 WWY O</b>	
	400	- Nominal voltage
	WW	- Calendar week of production
	Y	- Year of production
	O	- Non radioactive

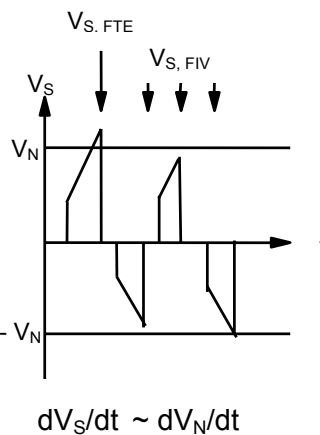
1) At delivery AQL 0,65 level II, DIN ISO 2859  
 2) Page 2, Fig. 1 and 2  
 3) Page 2, Fig. 3 and 4  
 4) Page 2, Fig. 3 and 4, 100 % outgoing inspection  
 5) After storage in darkness for 30 days

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

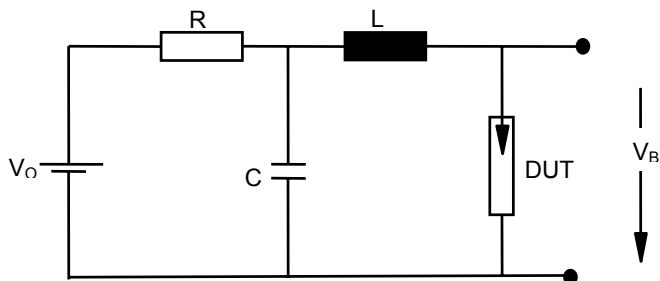


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 µA)  
 Discharge current 10 – 20 mA

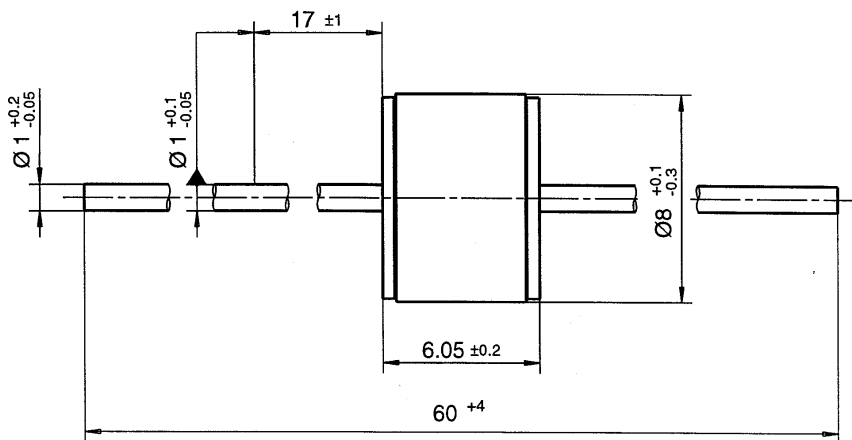
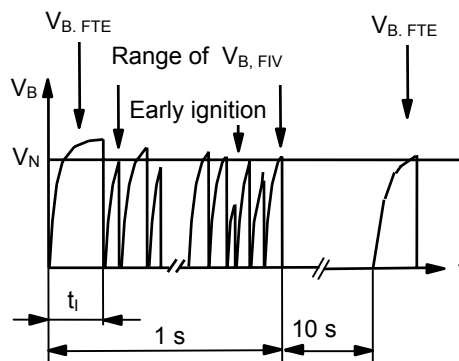
**Fig. 2:** Explanation of measurands



**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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