

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	$\leq 460$	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 $V_{B, FTE}$	$\leq 460$	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	$\leq 460$	V
First ignition value $V_{B, FTE}$ after 24 hours in darkness	$\leq 500$	V
Following ignition values $V_{B, FIV}$	340 ... 460	V
Switching operations		
at - 40 °C            Ignition time $t_i \leq 60$ ms <sup>5)</sup>	60 000	Ignitions
at - 40 °C            Ignition time $t_i \leq 200$ ms	100 000	Ignitions
at +25 °C            Ignition time $t_i \leq 60$ ms	100 000	Ignitions
at +25 °C            Ignition time $t_i \leq 200$ ms	200 000	Ignitions
at +125 °C           Ignition time $t_i \leq 60$ ms	200 000	Ignitions
Test circuit parameters		
Open circuit voltage $V_0$	500	V
Loading resistance R	10	k $\Omega$
Discharge capacitance C	680	nF
Inductance L	0.5	$\mu$ H
Discharge peak current $I_P$	~ 500	A
General technical data		
Insulation resistance at 100 V	> 100	M $\Omega$
Early ignition values below 340 V	$\leq 2$	%
Breakdown time	$\leq 50$	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	

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

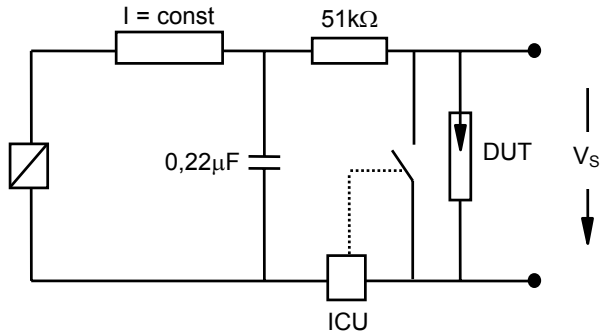
<sup>2)</sup> Page 2, Fig. 1 and 2

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

<sup>4)</sup> Page 2, Fig. 3 and 4, 100 % outgoing inspection

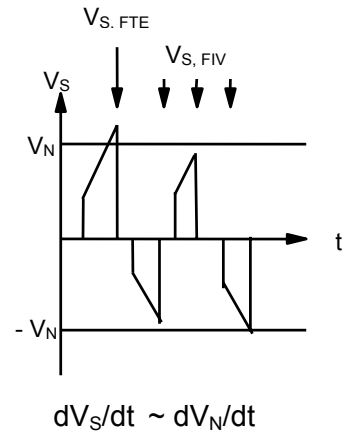
<sup>5)</sup> After storage in darkness for 30 days

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

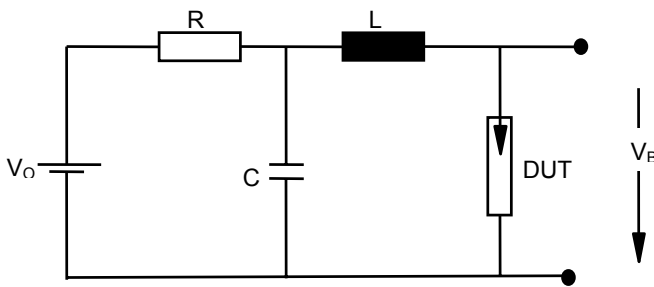


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 µA)  
 Discharge current 10 – 20 mA

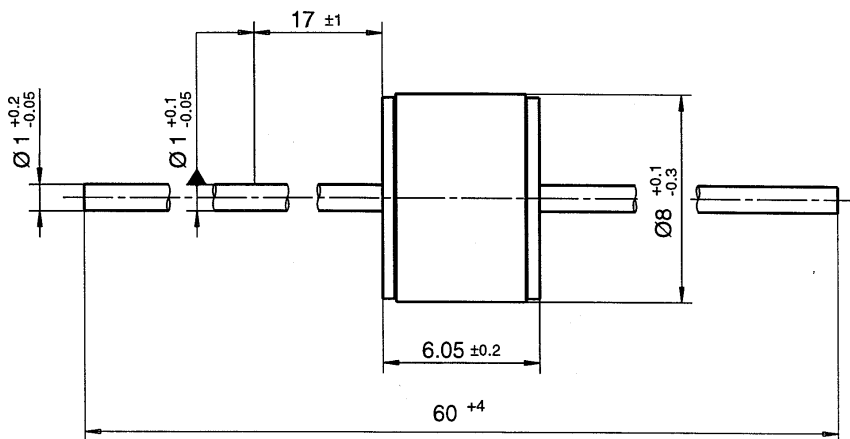
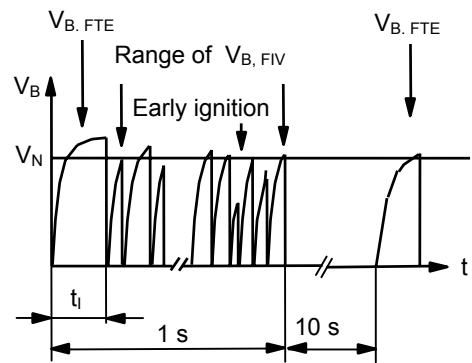
**Fig. 2:** Explanation of measurands



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



**Fig. 4:** Explanation of measurands



Not to scale  
 Dimensions in mm  
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