

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	$\leq 950$	V
Following ignition values $V_{S, FIV}$	704 ... 896	V
Electrical life time <sup>3)</sup>		
Breakdown voltage $V_B$ up to 100 000 Ignitions		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	$\leq 1000$	V
Ignition time $t_i$ at $V_0$ during life	$\leq 60$	ms
Following ignition values $V_{B, FIV}$ at 50 000 Ignitions	704 ... 920	V
Following ignition values $V_{B, FIV}$	680 ... 920	V
Switching operations in total	100 000	Ignitions
at $-40; +150$ °C, each	10 000	Ignitions
at $+25; +125$ °C, each	40 000	Ignitions
Test circuit parameters		
Open circuit voltage $V_0$	1000	V
Loading resistance R	56	k $\Omega$
Discharge capacitance C	114	nF
Inductance L	0.13	$\mu$ H
Discharge peak current $I_P$	$\sim 660$	A
General technical data		
Insulation resistance at 100 V	$> 100$	M $\Omega$
Early ignition values between 530 ... 680 V	$\leq 1$	%
Breakdown time	$\leq 50$	ns
Maximum loading current	50	mA
Weight	$\sim 2$	g
Marking, blue	<b>EPCOS 800 WWY O</b>	
	800	- Nominal voltage
	WW	- Calendar week of production
	Y	- Year of production
	O	- Non radioactive

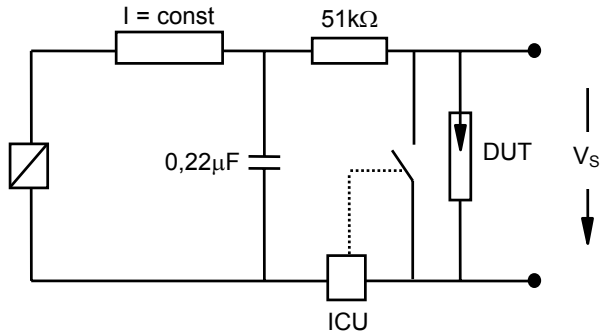
<sup>a)</sup> xxxx = T502 (taped and reeled with 500 pcs.)  
= T103 (taped and reeled with 1000 pcs.)

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

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

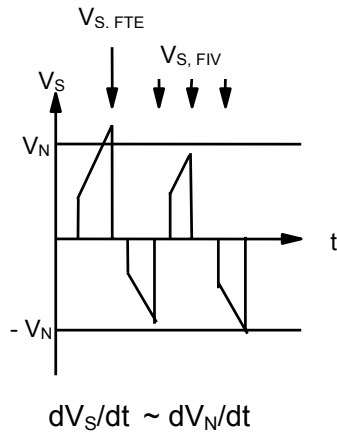
<sup>3)</sup> Page 2, Fig. 3 and 4

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

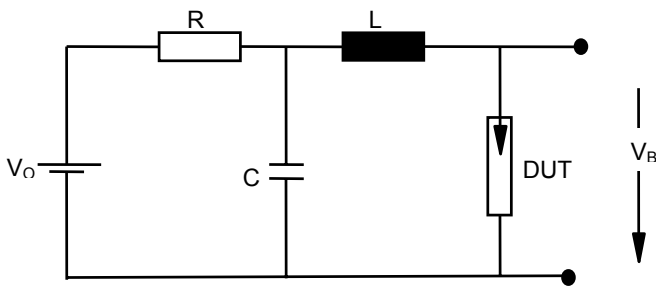


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 μA)  
 Discharge current 10 – 20 mA

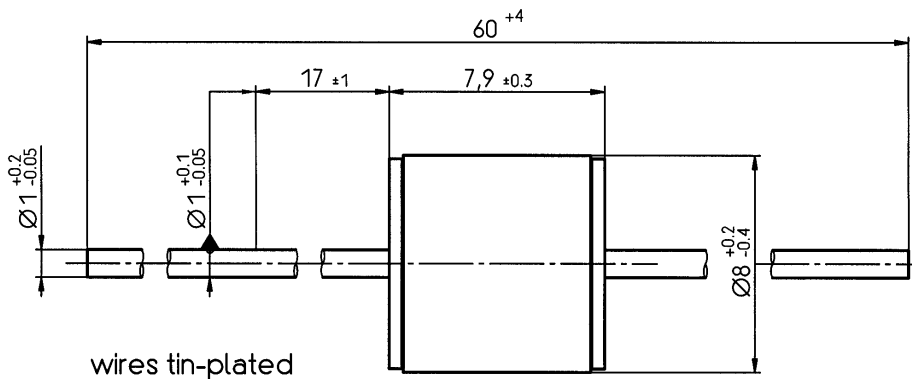
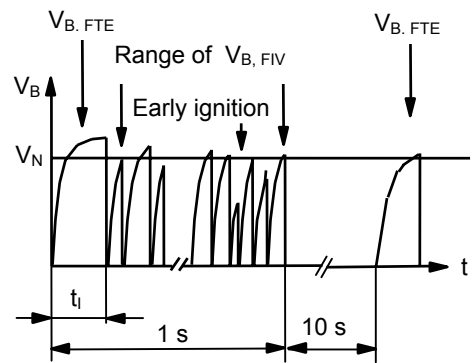
**Fig. 2:** Explanation of measurands



**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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