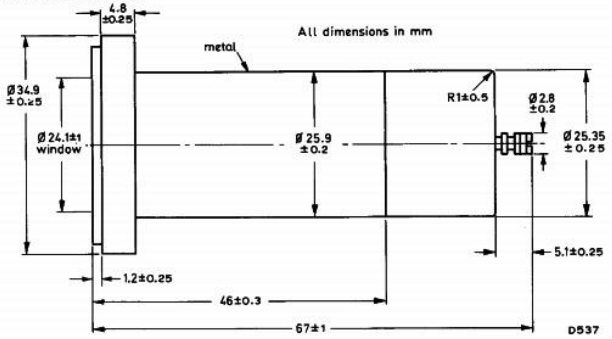
GEIGER MÜLLER TUBE MX123

QUICK REFERENCE DATA		
Halogen quenched end window beta tube		
Recommended working voltage	600	V
Window thickness	1.5 to 2.5	mg/cm^2

Beta particles arriving at the window with an energy exceeding 26 to 35kV will be counted.

OUTLINE DRAWING



WINDOW		
Thickness	1.5 to 2.5	mg/cm^2
Effective diameter	24.1	mm
Material	mica	
CATHODE		
Thickness	0.9	mm
Sensitive length	26	mm
Material	Chrome iron (27% chrome)	
FILLING	Neon, argon and halogen	

CAPACITANCE		
Anode to cathode	5.0	pF
ELECTRICAL CONNECTIONS		
Cathode	Wall	
Anode	Turret	
OPERATING CHARACTERISTICS (T_{amb} = 20°C)		
measured in circuit of Fig.1		
Max. starting voltage (input sensitivity 0.25V)	500	V
Max. threshold voltage	550	V
Min. plateau length	150	V
Max. plateau slope	0.15	%/V
Recommended working voltage	600	V
Max. background at 600V shielded with 50mm lead and 3mm aluminium	25	counts/min
Dead time at 600V	60	μs
RATINGS (ABSOLUTE MAXIMUM SYSTEM)		
Min. anode resistor	2.7	MΩ
Max. anode voltage	700	V
Max. ambient temperature	+75	°C
Min. ambient temperature	-55	°C

TEST INPUT CIRCUIT

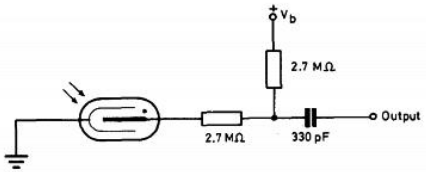
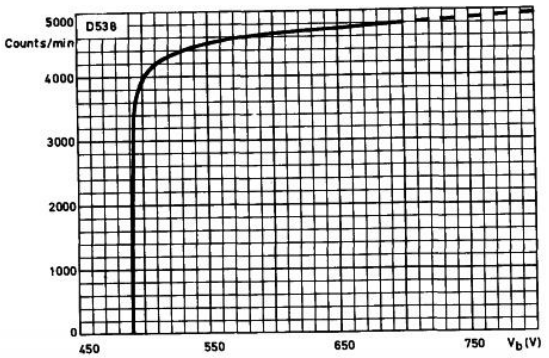
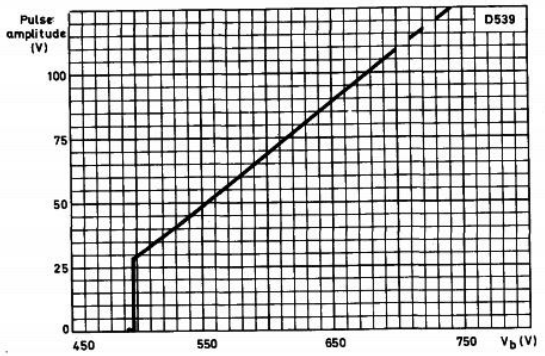


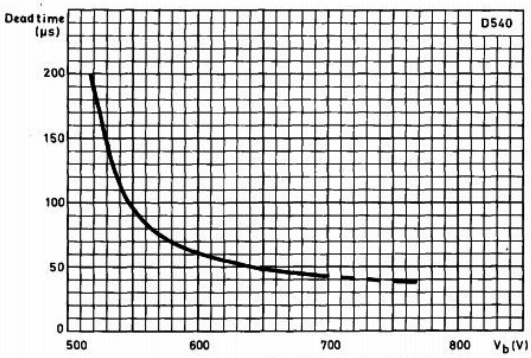
Fig. 1



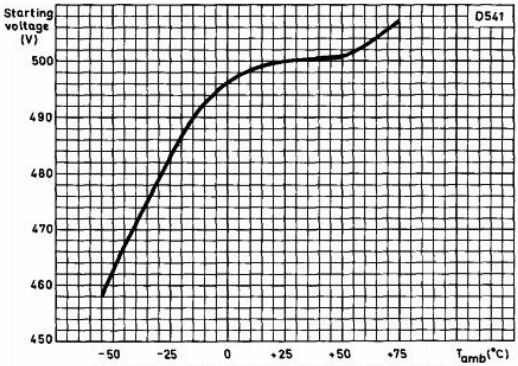
PLATEAU CURVE



PULSE AMPLITUDE PLOTTED AGAINST WORKING VOLTAGE



DEAD TIME PLOTTED AGAINST WORKING VOLTAGE



TEMPERATURE DEPENDENCE OF STARTING VOLTAGE