

GEIGER MÜLLER TUBE

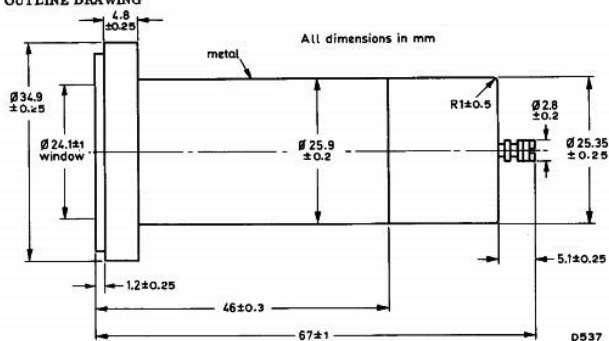
MX123

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
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ELECTRICAL CONNECTIONS

Cathode	Wall
Anode	Turret

OPERATING CHARACTERISTICS ($T_{amb} = 20^{\circ}C$)

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	M Ω
Max. anode voltage	700	V
Max. ambient temperature	+75	$^{\circ}C$
Min. ambient temperature	-55	$^{\circ}C$

TEST INPUT CIRCUIT

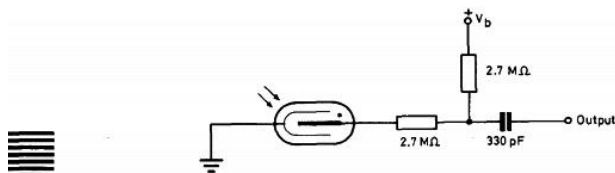
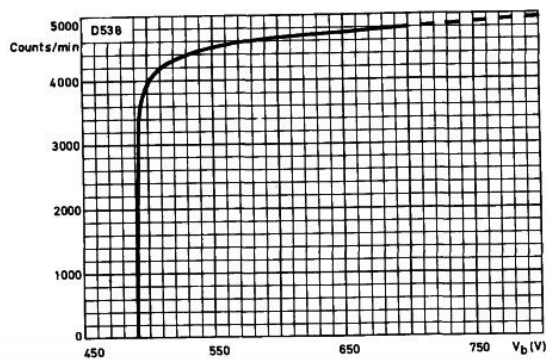


Fig. 1

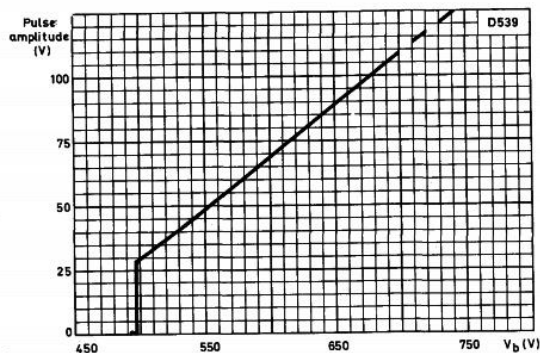
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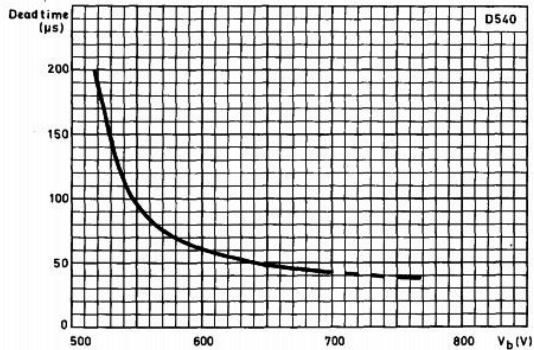


PLATEAU CURVE

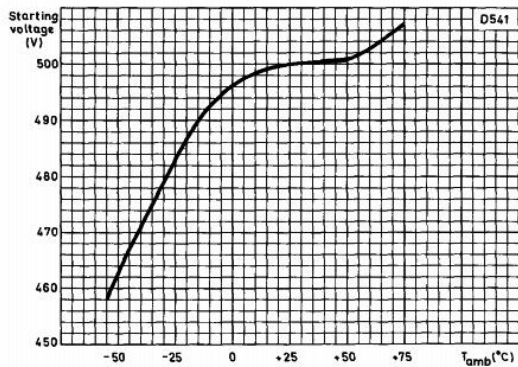


PULSE AMPLITUDE PLOTTED AGAINST WORKING VOLTAGE

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DEAD TIME PLOTTED AGAINST WORKING VOLTAGE



TEMPERATURE DEPENDENCE OF STARTING VOLTAGE

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