

GEIGER MÜLLER TUBE

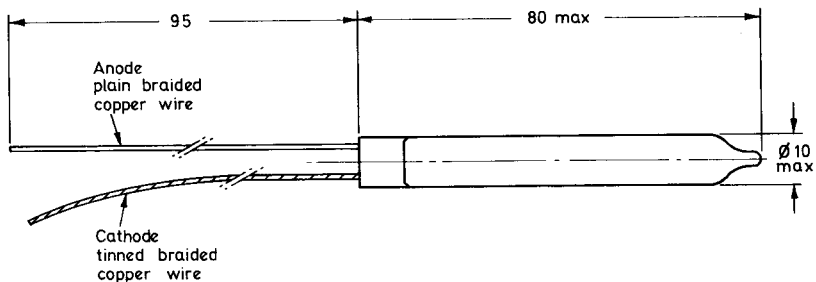
MX119

QUICK REFERENCE DATA

Halogen quenched high current gamma tube

Recommended working voltage	600	V
Gamma sensitivity at 10mR/h (^{60}Co source)	5700	counts/min

OUTLINE DRAWING



All dimensions in mm

D527

CATHODE

Thickness	400	mg/cm ²
Sensitive length	40	mm
Material	Chrome iron (20% chrome)	

FILLING

Neon, argon and halogen

CAPACTANCE

Anode to cathode	2.2	pF
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ELECTRICAL CONNECTIONS

Cathode	Tinned copper flying lead
Anode	Untinned copper flying lead



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

measured in circuit of Fig.1

Max. starting voltage	370	V
Max. threshold voltage	450	V
Min. plateau length	225	V
Max. plateau slope	0.15	%/V
Recommended working voltage	600	V
Max. background at 600V shielded with 50mm lead and 3mm aluminium	20	counts/min
Max. dead time at 600V	35	μs

RATINGS (ABSOLUTE MAXIMUM SYSTEM)

Min. anode resistor	2.7	M Ω
Max. anode voltage	725	V
Max. ambient temperature	+75	$^{\circ}C$
Min. ambient temperature	-40	$^{\circ}C$

TEST INPUT CIRCUIT

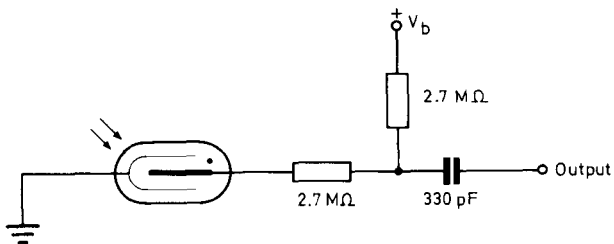
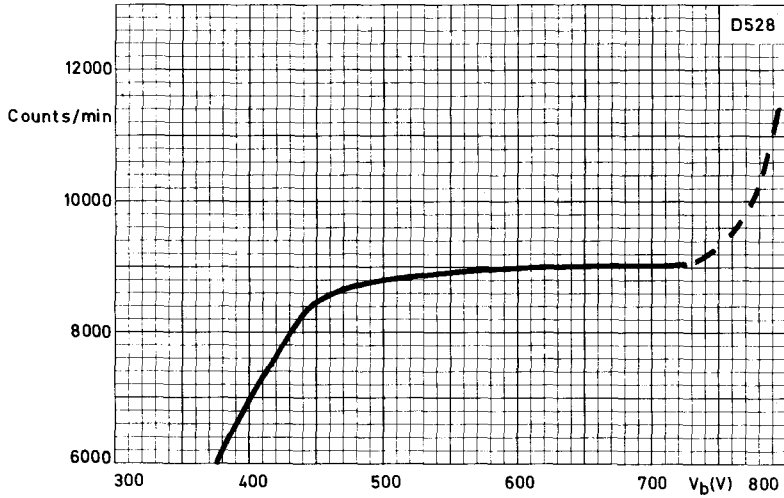
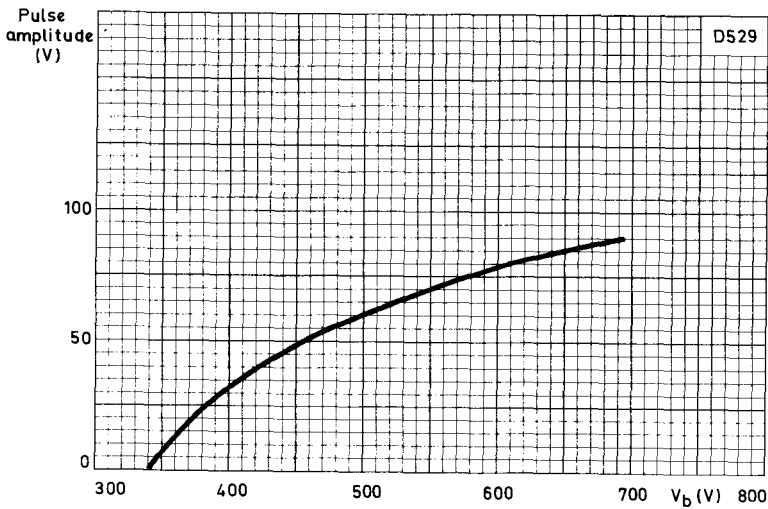


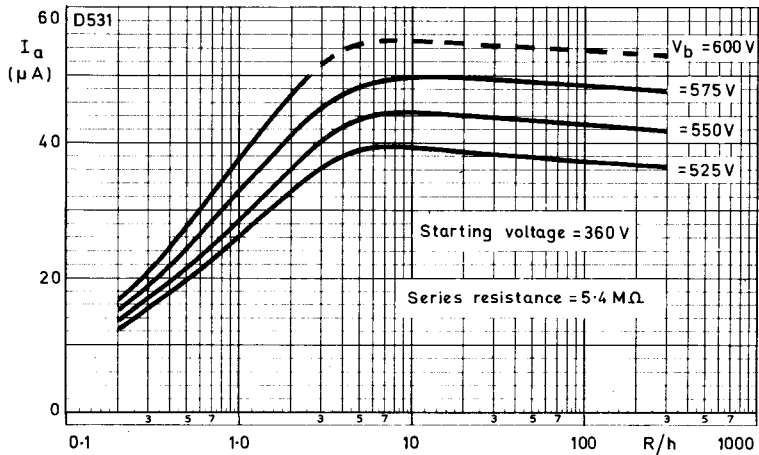
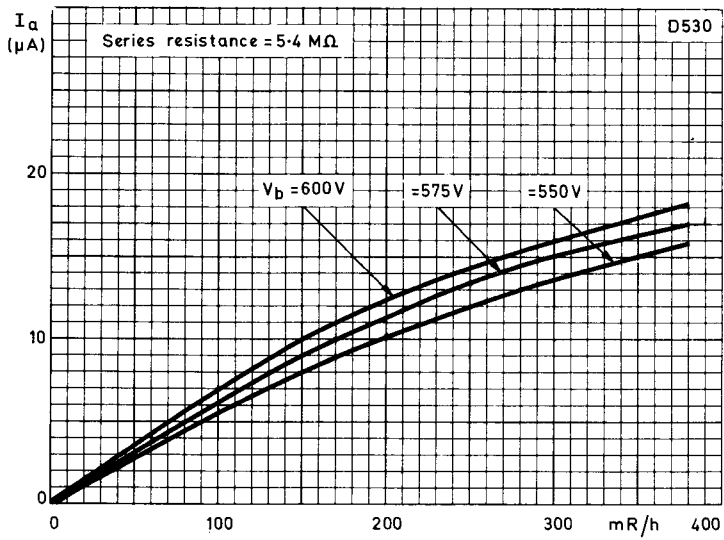
Fig. 1



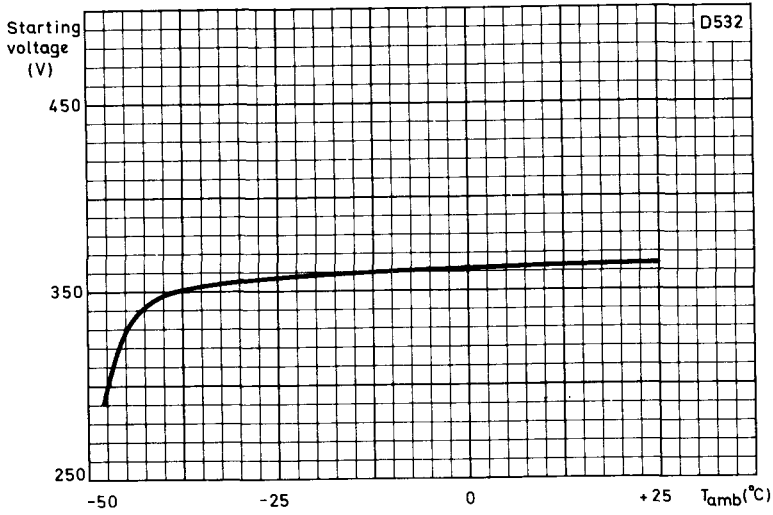
PLATEAU CURVE



PULSE AMPLITUDE PLOTTED AGAINST WORKING VOLTAGE



CURRENT AS A FUNCTION OF DOSE RATE



TEMPERATURE DEPENDENCE OF STARTING VOLTAGE

