

MICRON SEMICONDUCTOR LIMITED

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10th January 2013

INVOICE NO: 14002
VAT No: GB 376 8710-14

REF: PURCHASE ORDER NO 1562604

Detector shipped to:-

William G Lynch, Michigan State University/NSCL, 1 Cyclotron, East Lansing, MI48824-1321, United States of America

Supply:

Quantity 1, **BB7(DS)-65** Silicon Detector [HIRA DSSD]
Drawing No: A-4104
Serial No: 3007-2 [62 µm]

UNIT PRICE: \$5,500

\$5,500

TOTAL INVOICE VALUE: \$5,500

ORDER COMPLETE

Prices: US Dollars, FOB Michigan, USA

Tariff Code: 8541-10-0080 [DIODE: Other NSPF (Not PHOTSN), Rated: 0%.]

Payment Terms: Net 30 days

Payment: US\$ cheque to above address OR wire transfer to:

Barclays Bank plc, 139-142 North Street, BRIGHTON, BN1 1RU, UK

Sort Code: 20-12-75; Account No: 82949877

IBAN No: GB90 BARC20127582949877; SWIFT BIC: BARCGB22

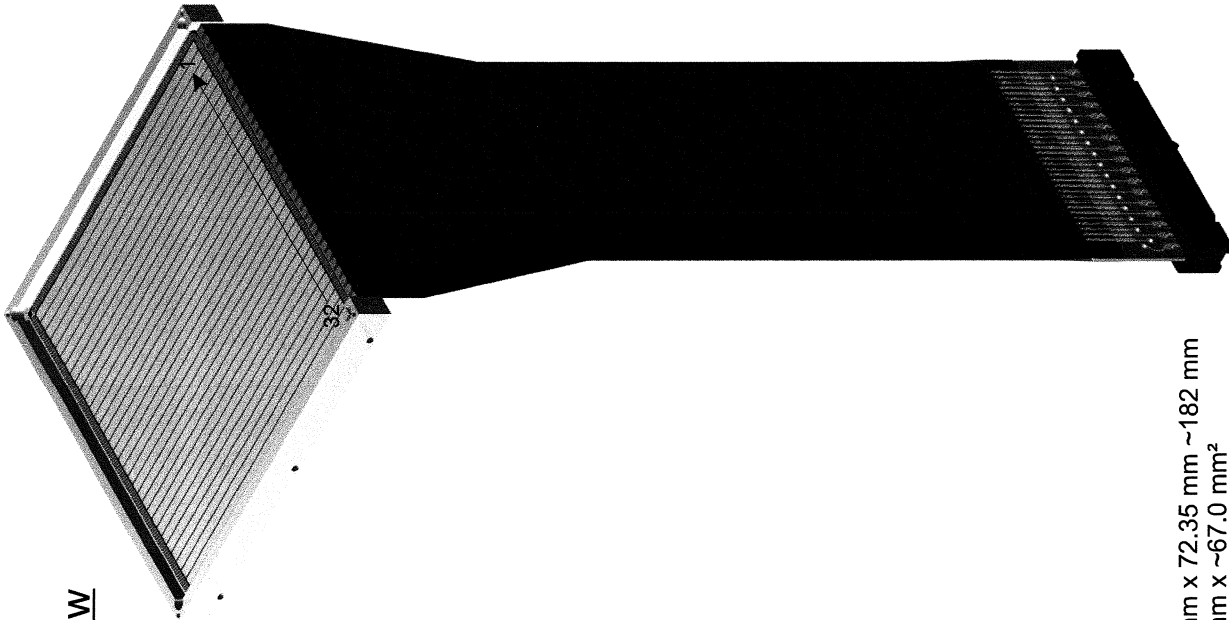
Warranty: 12 months manufacturing/specification defects attributed to Micron Semiconductor Limited from INVOICE DATE.

Origin: This detector was manufactured wholly in the UK (EEC) at Micron Semiconductor Works, Lancing, England, UK.

COLIN D WILBURN, DIRECTOR



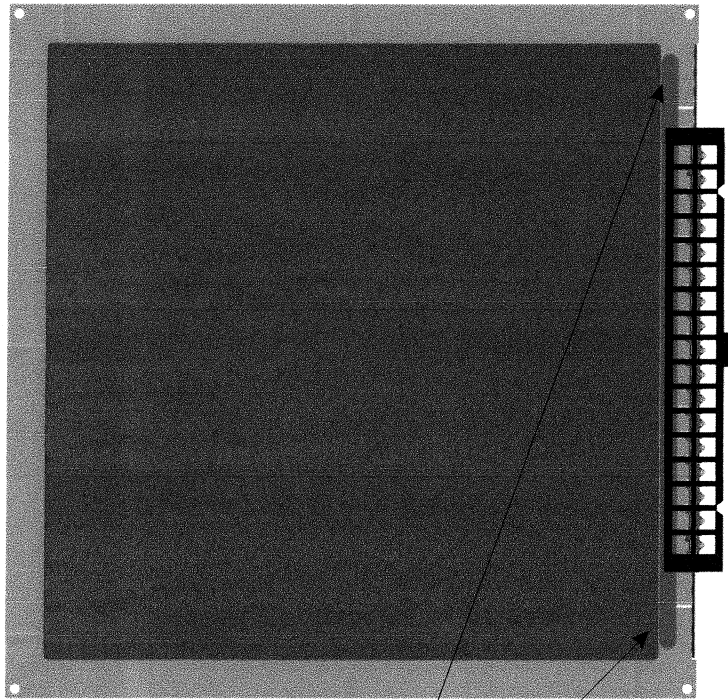
Front View



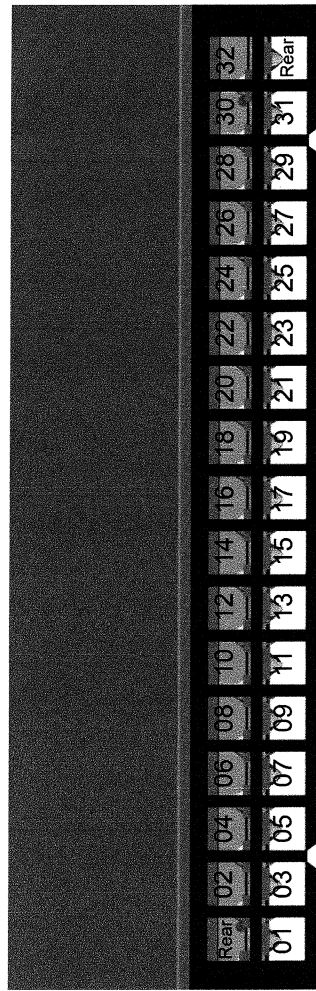
PCB Dimensions = 72.35 mm x 72.35 mm ~182 mm
 Chip Dimensions = ~67.0 mm x ~67.0 mm²
 Active Area = 63.8 mm x 63.8 mm²

Rear connection made by Silver wires

Rear View



Connector View



Drawn/Checked	Date	Title.	
N.W S.W	06/12/2012	BB7(S/S) 2M/2M in Customer Supplied Package. 3D Assembly.	
Des.		Outputs Via: Unknown customer supplied 2.54 x 2.54 mm connector	
Appd.		Mating connector: N/A	
Customer		Potted Wire Bonds: No	
		Package Hole Pos'n ± 0.1 mm Substrate Number: N/A customer supplied package	
		Substrate Material: N/A customer supplied package	
		Detector O/D ± 20.0 µm	
		Connector Orientation: connector mounted both sides of kapton rigidiser	



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graphics@micronsemiconductor.co.uk

Scale N/A

Dims mm

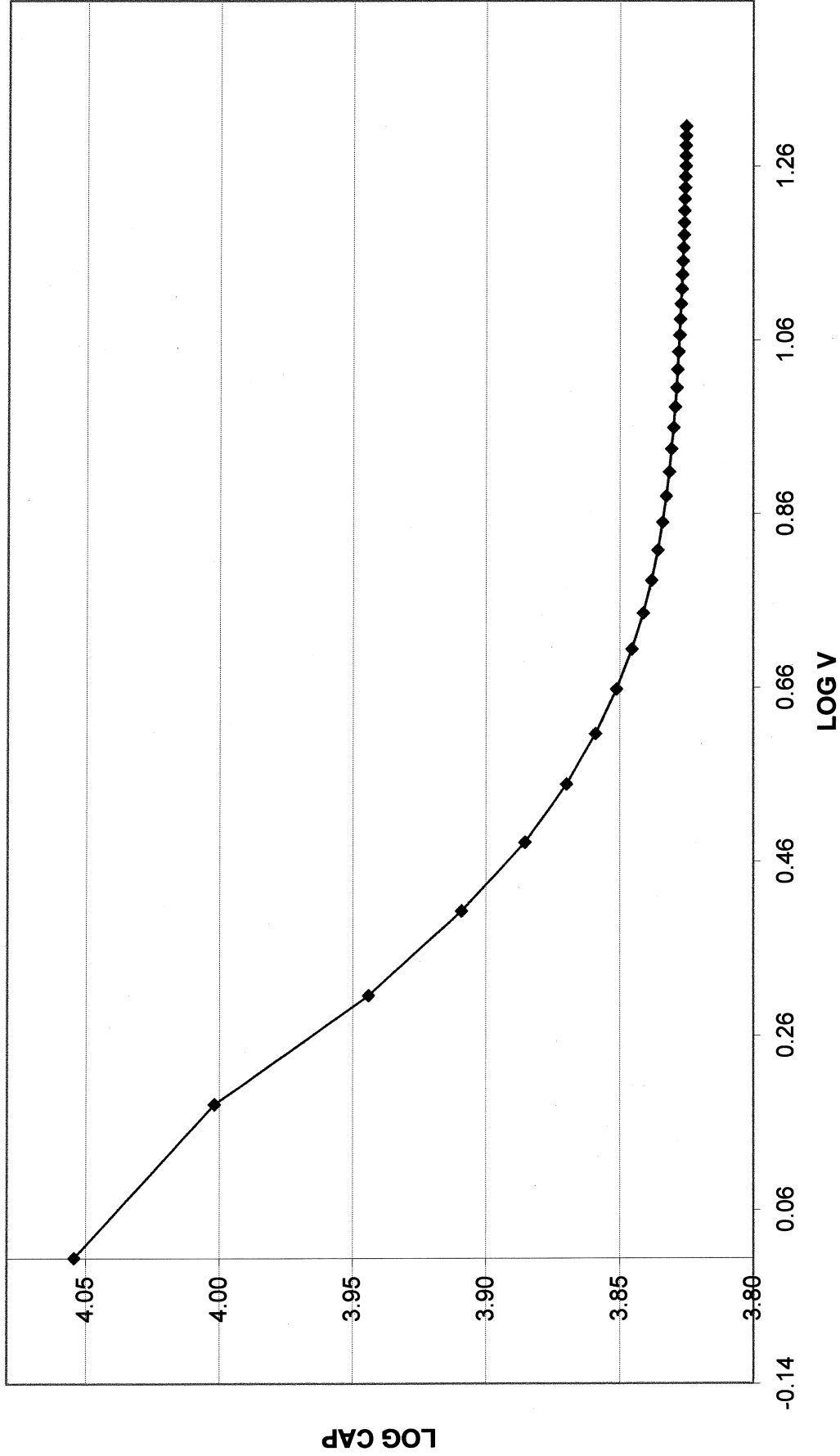
Dwg No A-4104

Depletion Plot

BB7-65

Wafer No.: **3007-2**

Thickness:	62	um
Depletion:	7.5	Volts



Resolution Plot

DESIGN BB7-65

Wafer No.: **3007-2**

Thickness: **62** μm

SECTION

LINE: **300** KeV
TEM: **230** KeV
: **192** KeV

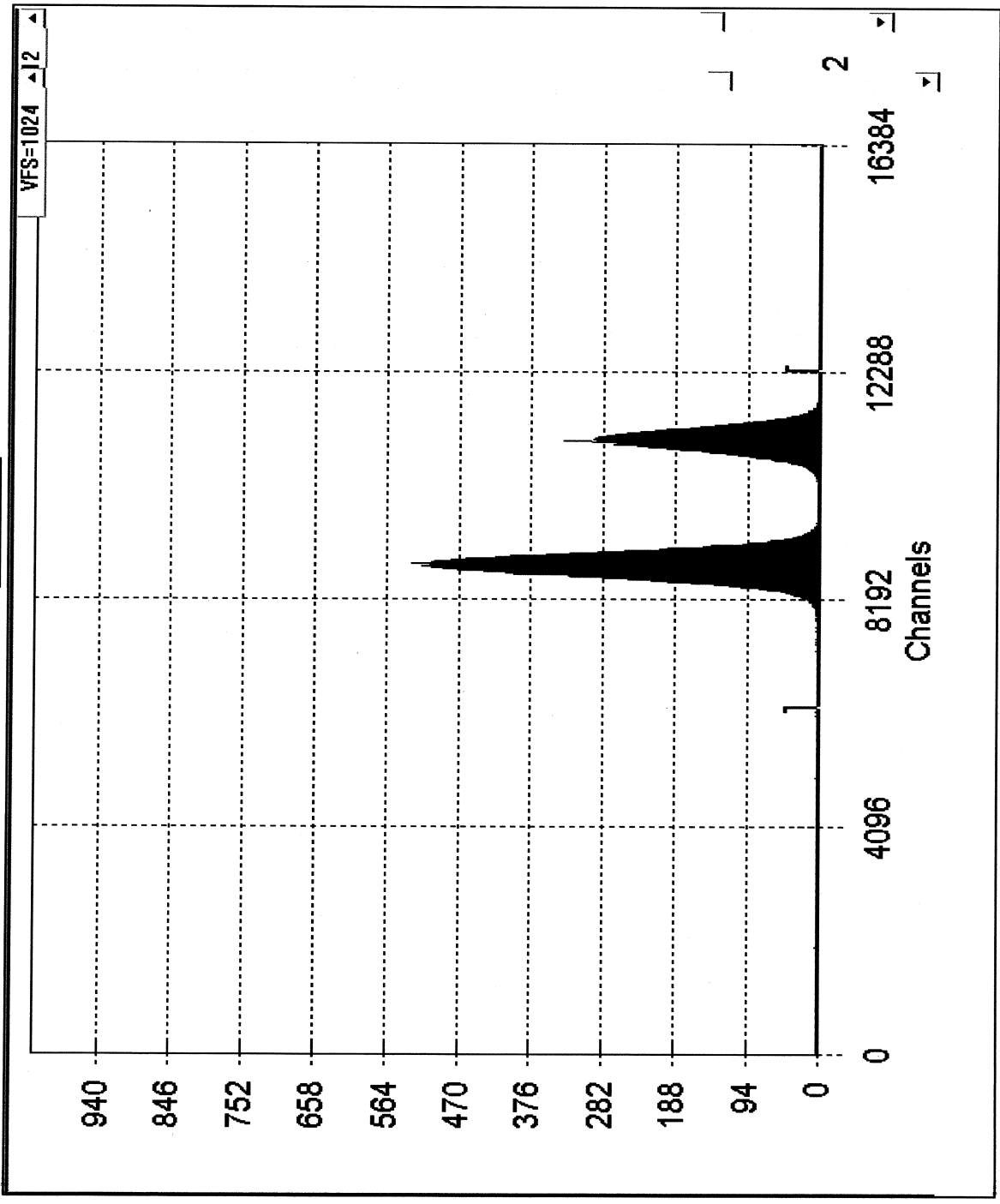
MIC

LINE: **303** KeV
TEM: **230** KeV
C: **197** KeV

Source
Am 241

Rise Time
1

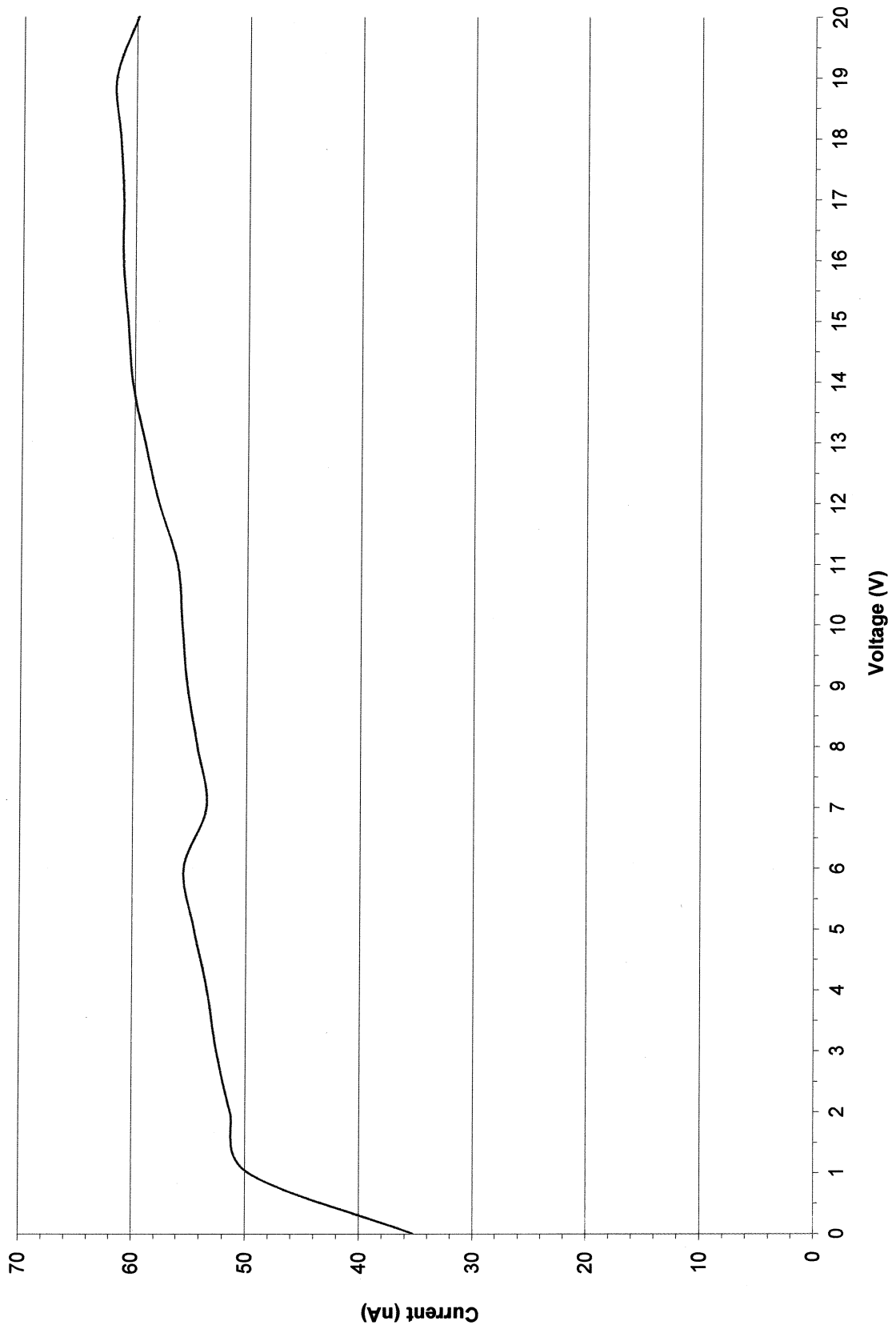
Flat Top
0



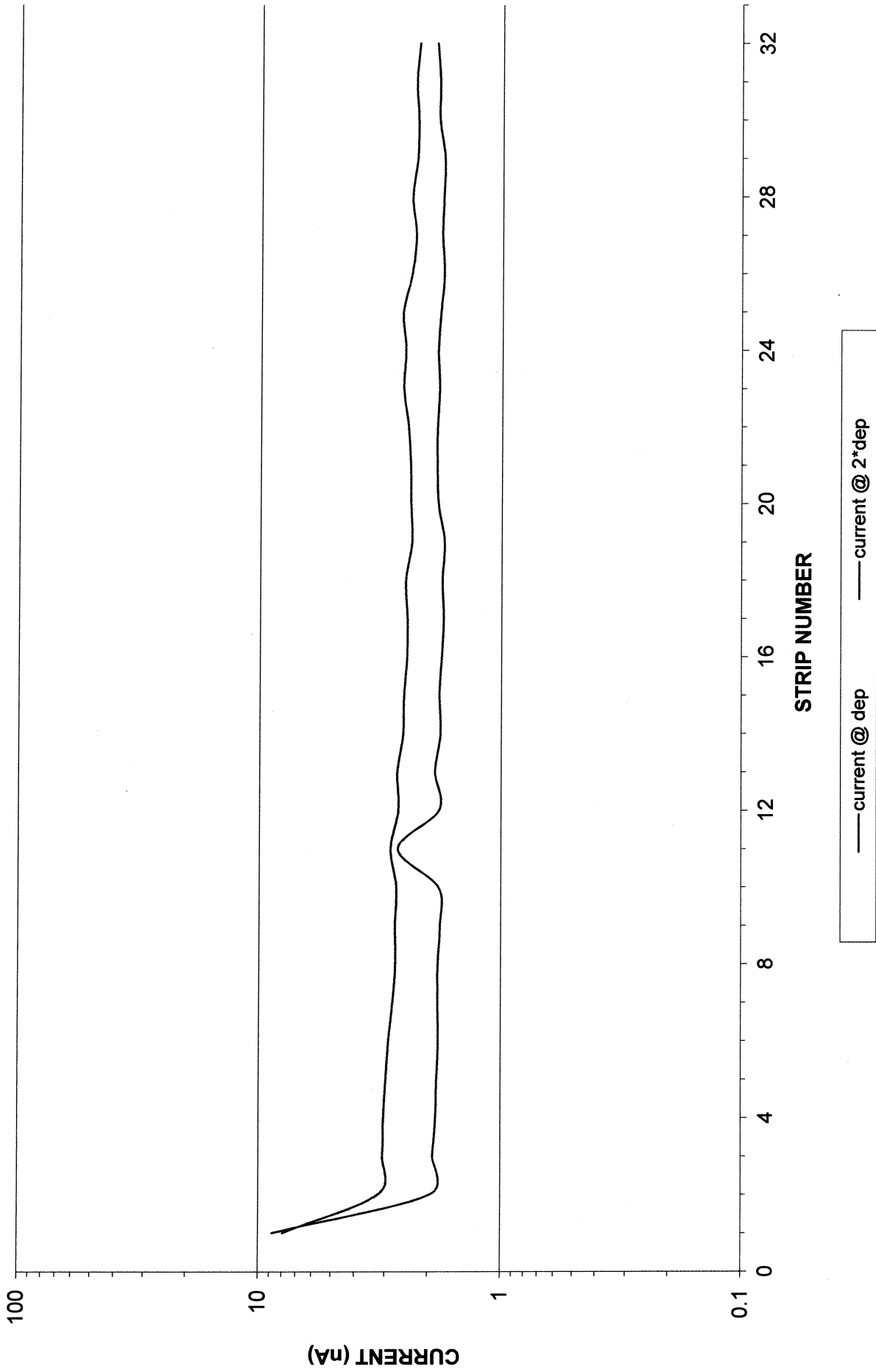
BIAS VOLTS= **7.2** V

Leakage **25** nA

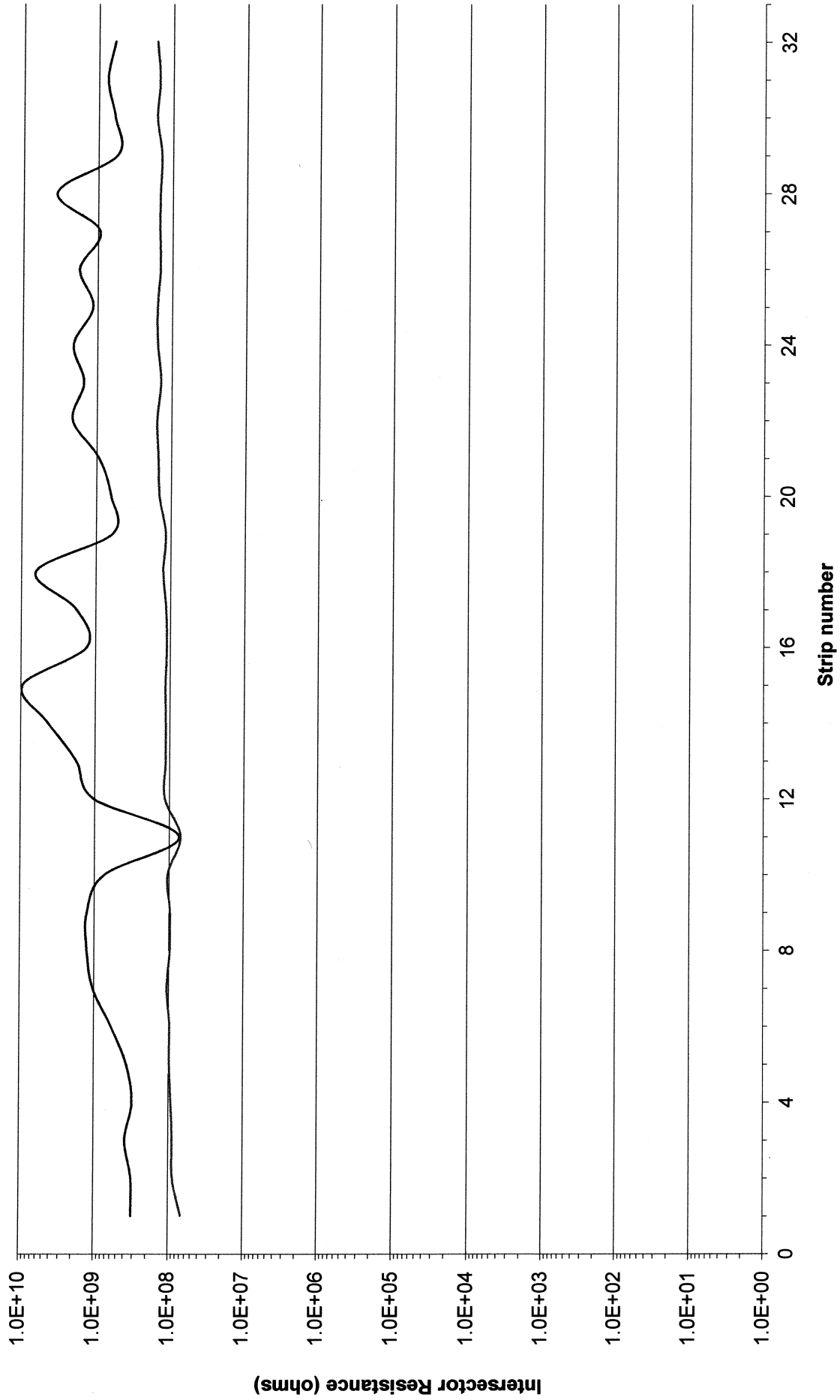
BB7-65 N-TYPE
3007-2 TOTAL DETECTOR IV
Dep=7.5V Thickness=62um



BB7-65 N-TYPE
3007-2 Junction side Dep=7.5V



BB7-65 N-TYPE
3007-2 Junction side Dep=7.5V



— Inter @ Dep - - - Inter @ 2*dep