MICRON SEMICONDUCTOR LIMITED

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Texas A&M University
Cyclotron Institute
Rm 242
3366 TAMU
College Station
Texas, TX 77843-3366
United States of America
Attention: Jerry W Deason; Tel: 979-845-1411

7th July 2011

INVOICE NO: 13333
VAT No: GB 376 8710-14

REF: PURCHASE ORDER NO P003844

Supply:-

Quantity 1, **BB1(DS)-300** SILICON DETECTOR
Type 2M in Custom PCB with Readout
Serial No: 2852-14 (290 µm)

UNIT PRICE: $5,500	$5,500

TOTAL INVOICE VALUE: $5,500

BALANCE OF ORDER: Quantity 1, **BB1(DS)-300** Detector
& NRE (Non-Recurring Engineering)

Detectors sent to: Jerry W Deason
Prices: US Dollars, FOB College Station
US 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

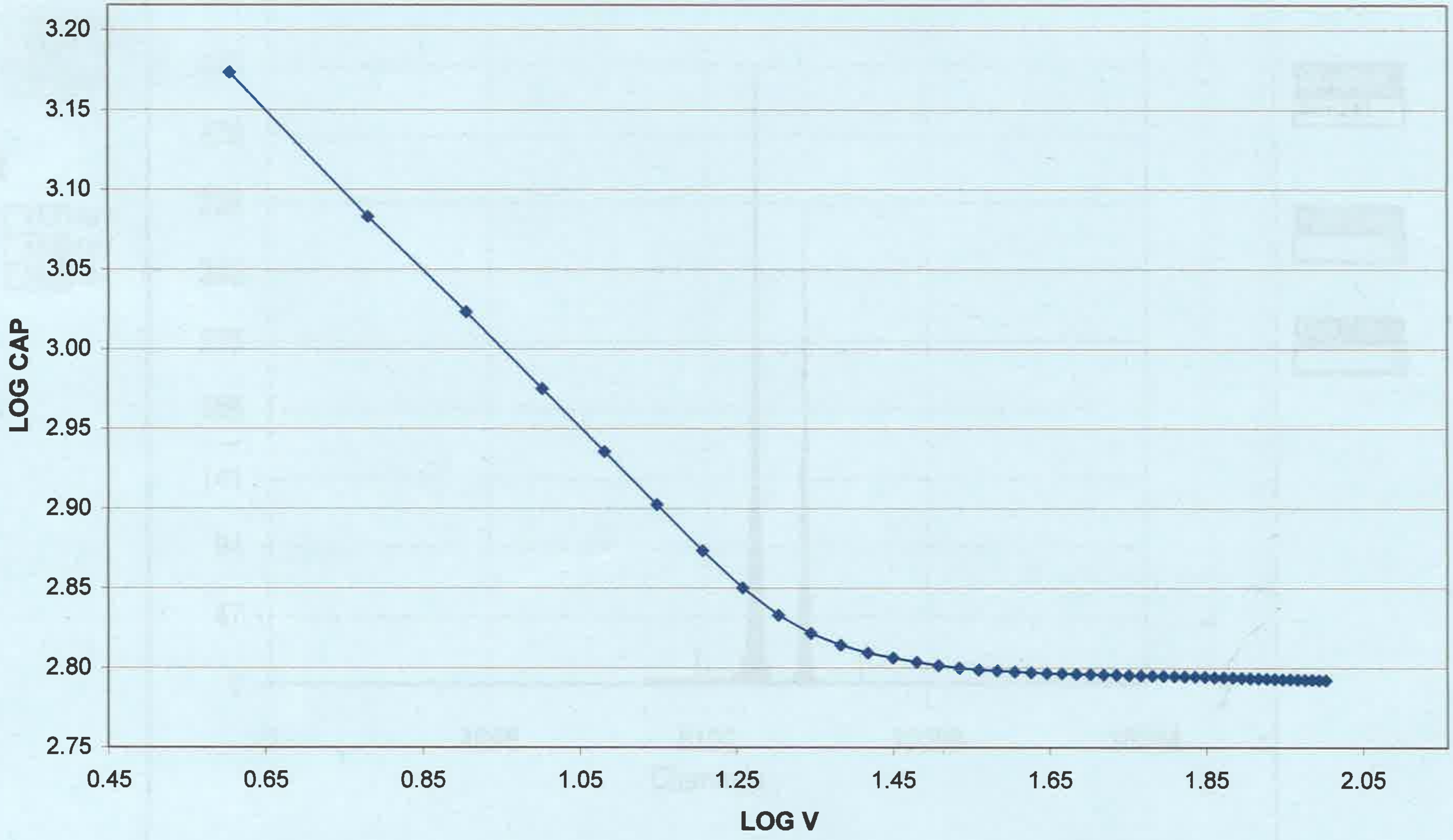
Depletion Plot

BB1-300

Wafer No.: 2852-14

Thickness: 290 um

Depletion: 30 Volts



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27-06-11

Resolution Plot

DESIGN BB1-300 TYPE 2M

Wafer No.: 2852-14

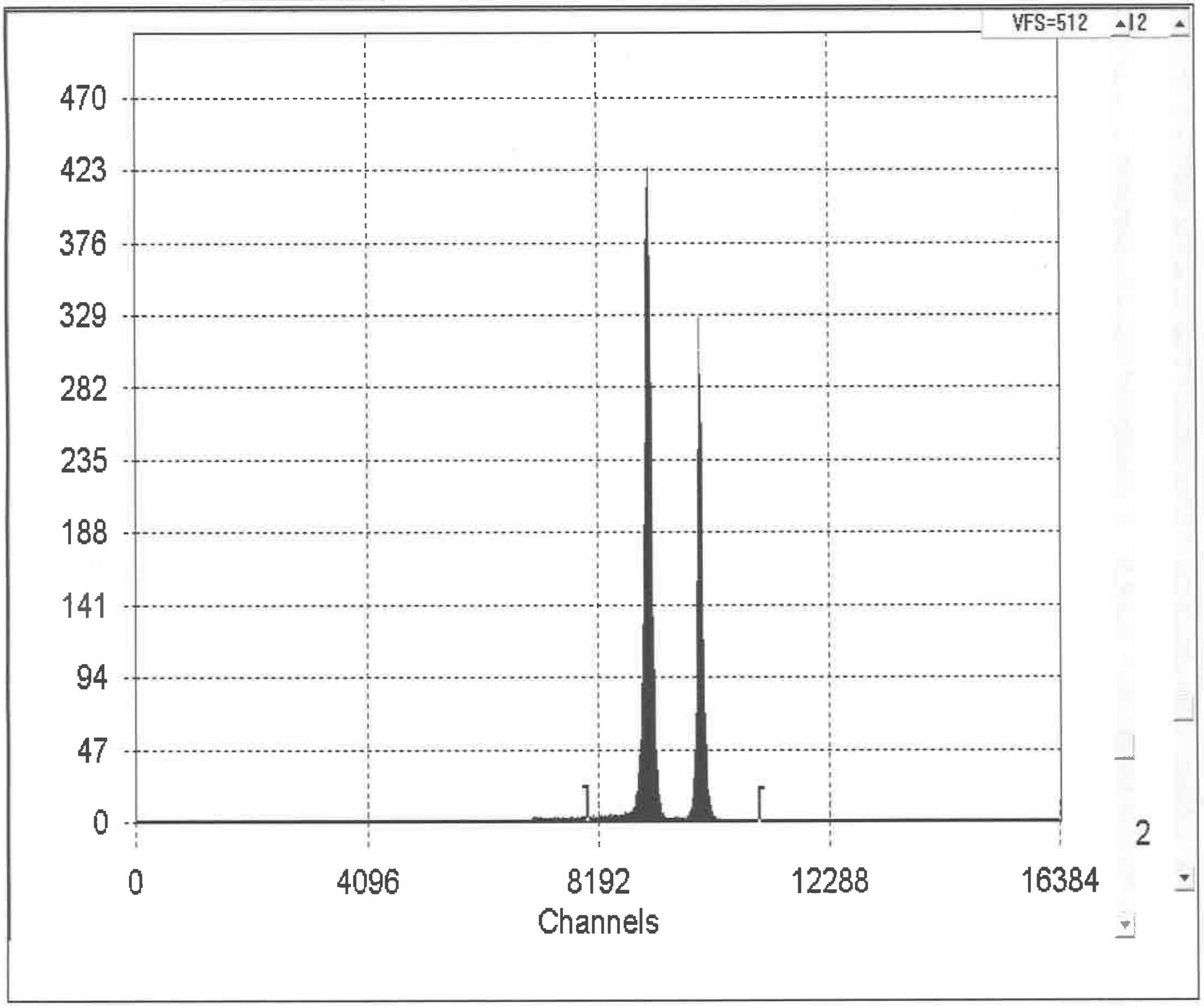
Thickness: 290 um

JUNCTION

DET LINE: 68.3 KeV
SYSTEM: 48.9 KeV
CAL: 47.7 KeV

OHMIC

DET LINE: 71.7 KeV
SYSTEM: 48.8 KeV
CALC: 52.5 KeV



Source
Am 241

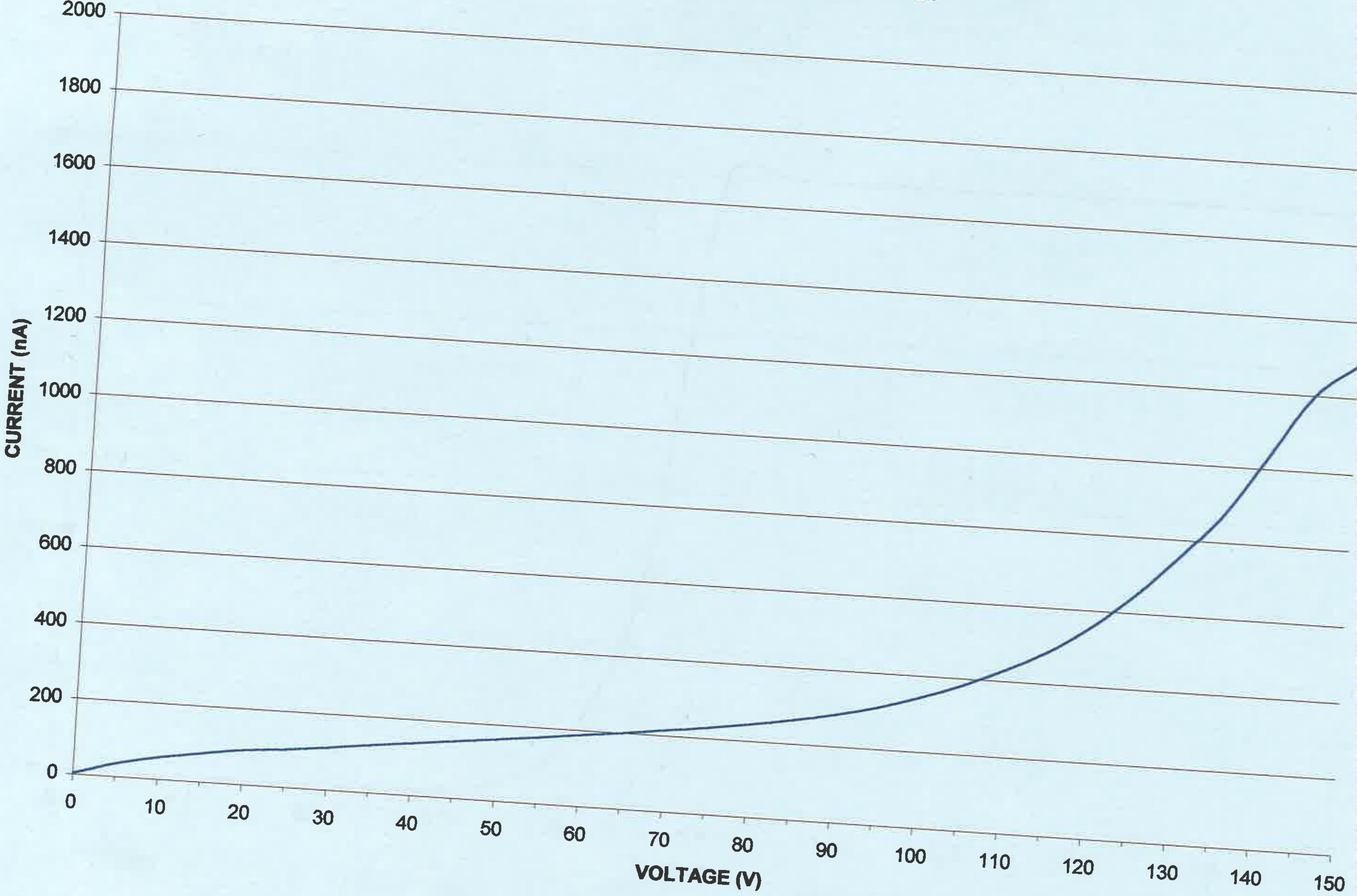
Rise Time
1

Flat Top
0

BIAS VOLTS= 60 V

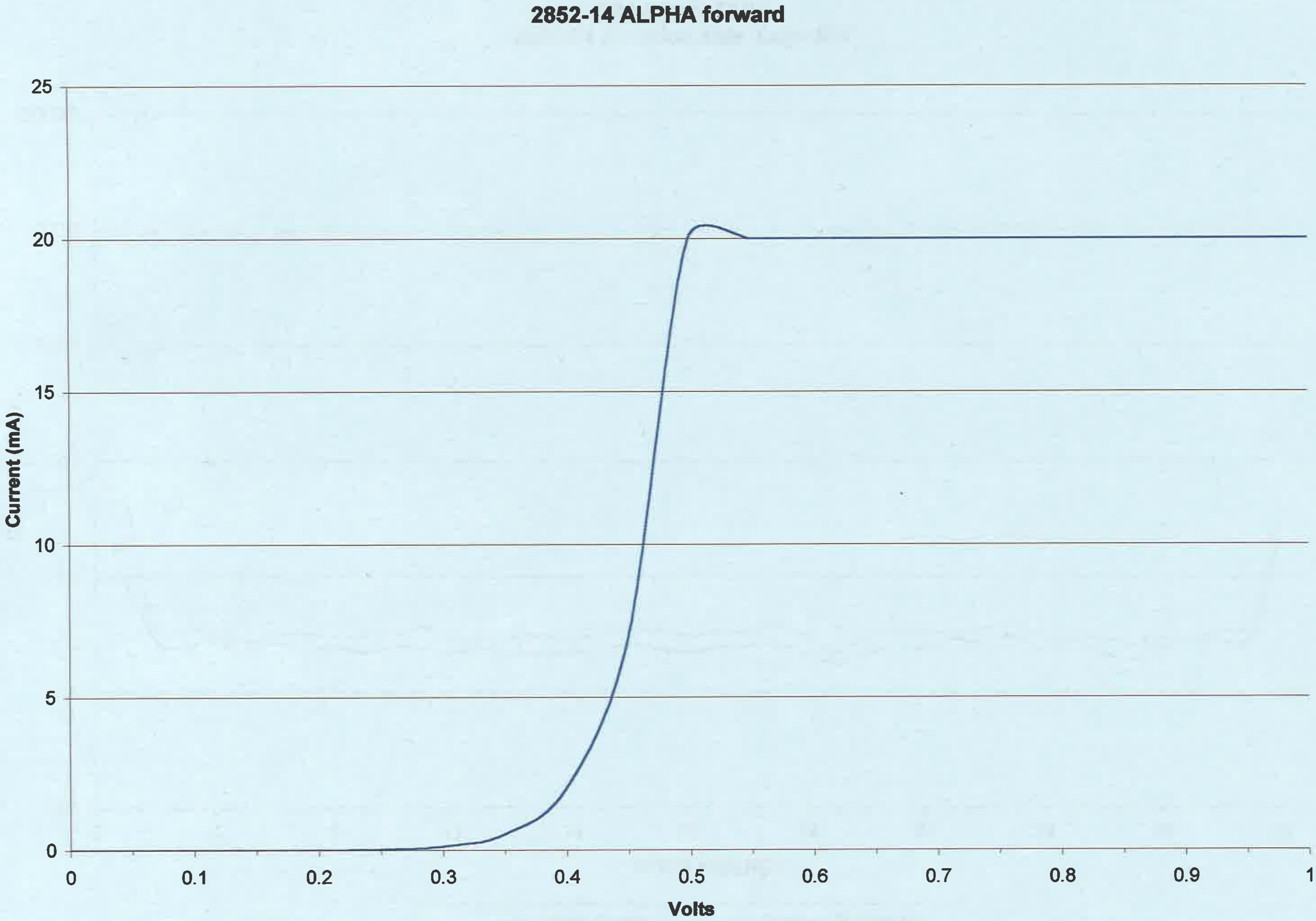
Leakage 140 nA

Micron Semiconductor
04/07/2011

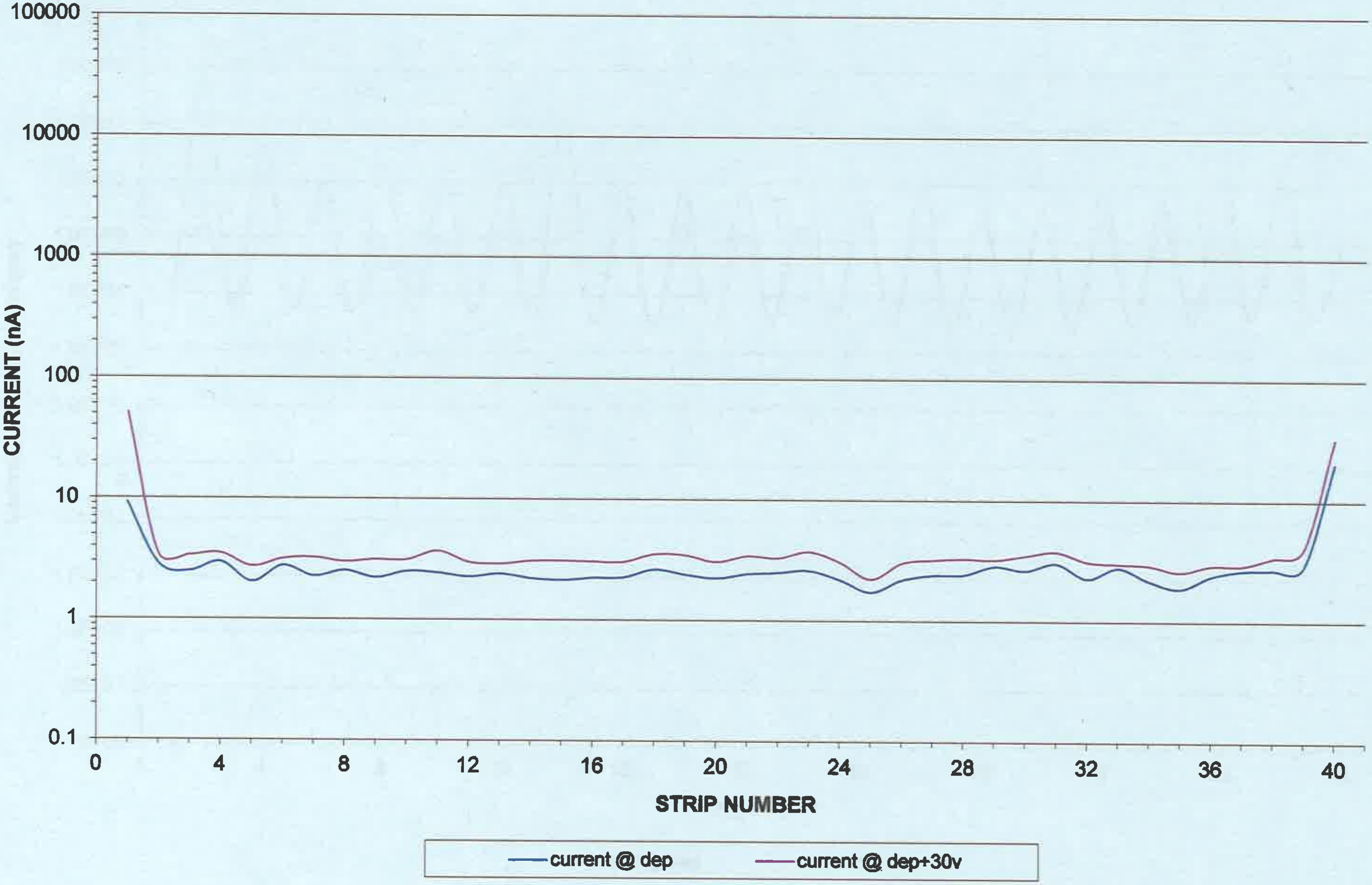


BB1-300

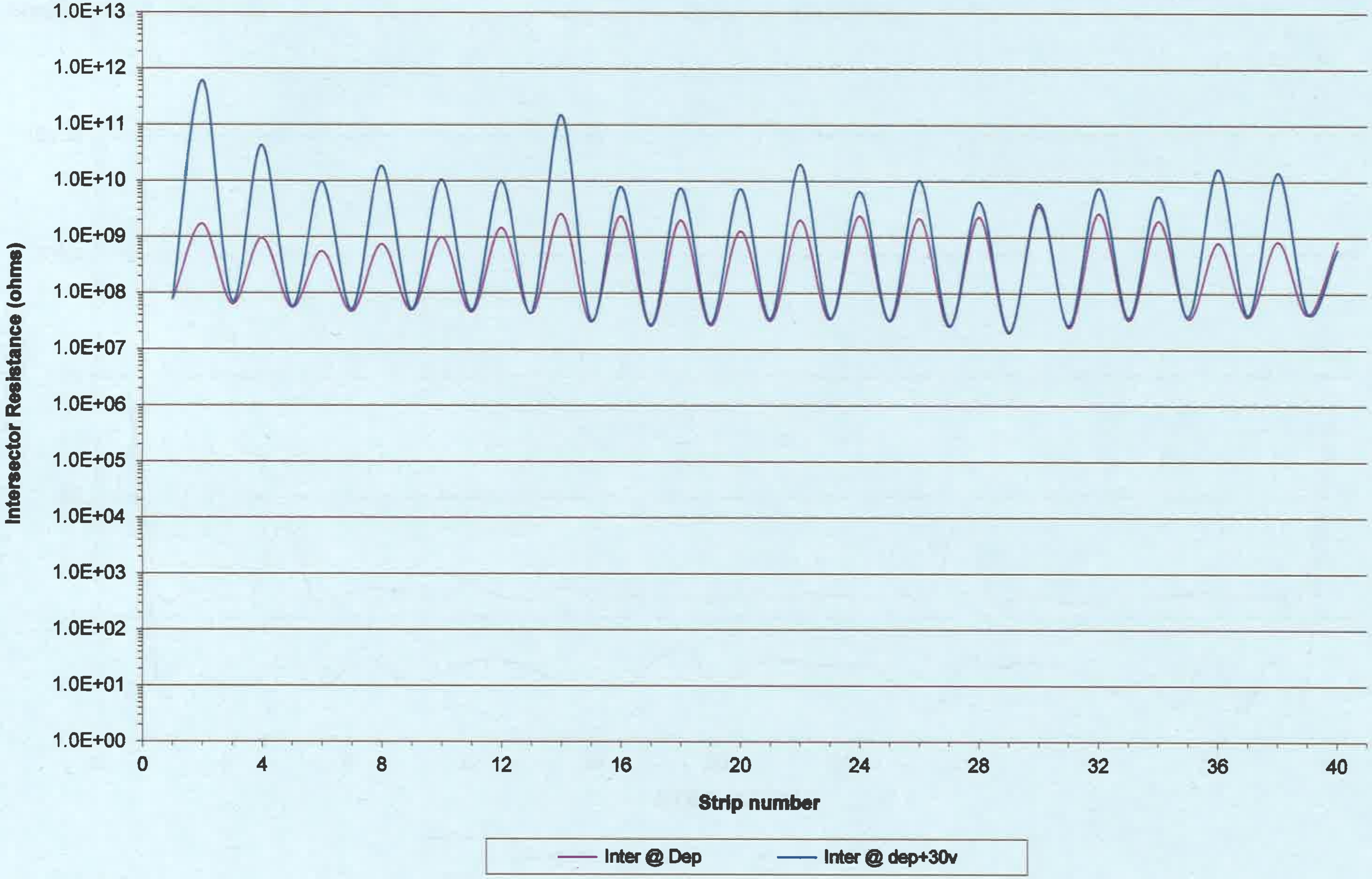
2852-14 Dep=30V Thickness=290uM

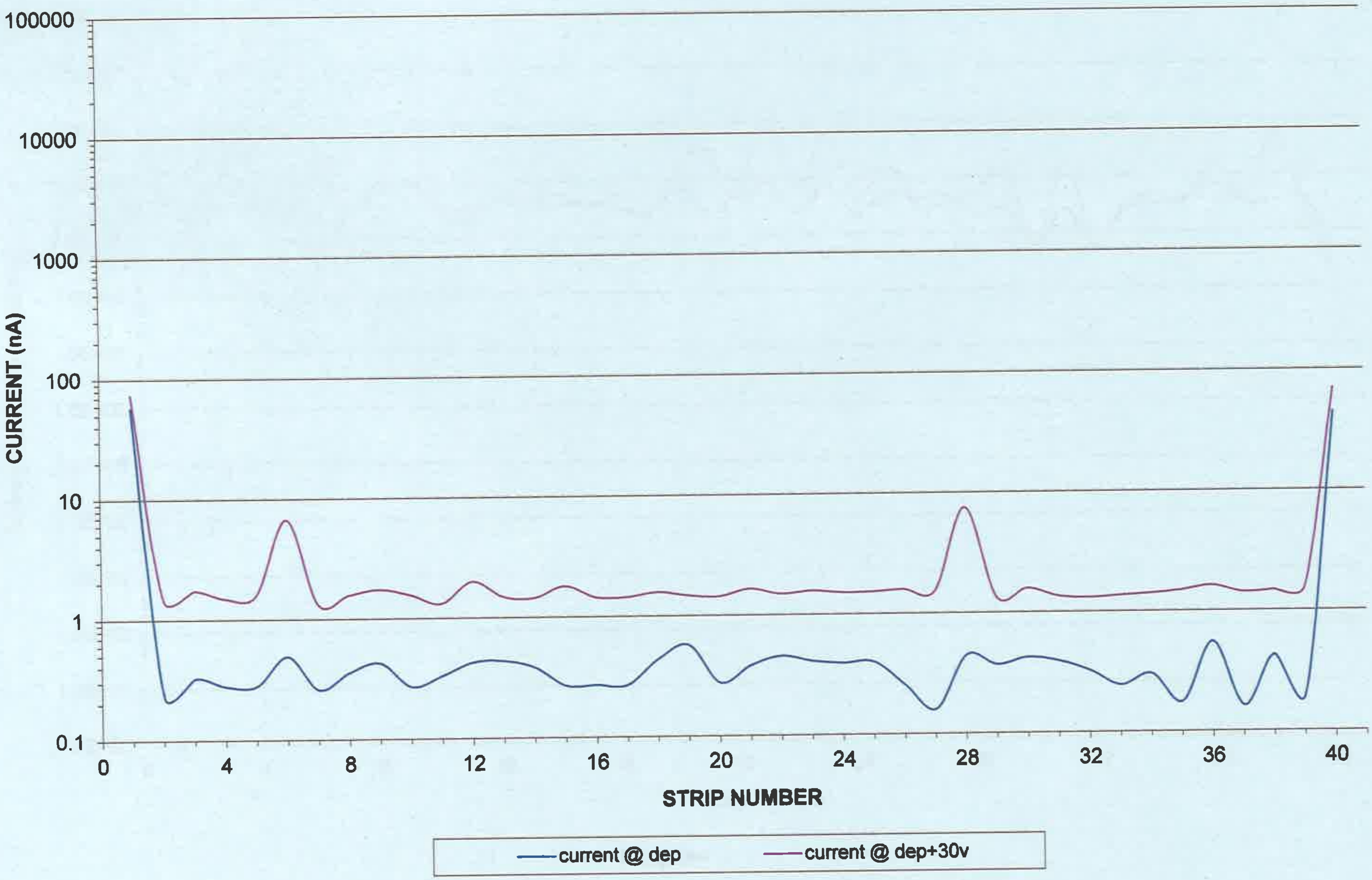

2852-14 ALPHA forward
Current (mA)
25
20
15
10
5
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Volts

BB1-300 N-TYPE
2852-14 Junction side Dep=30V

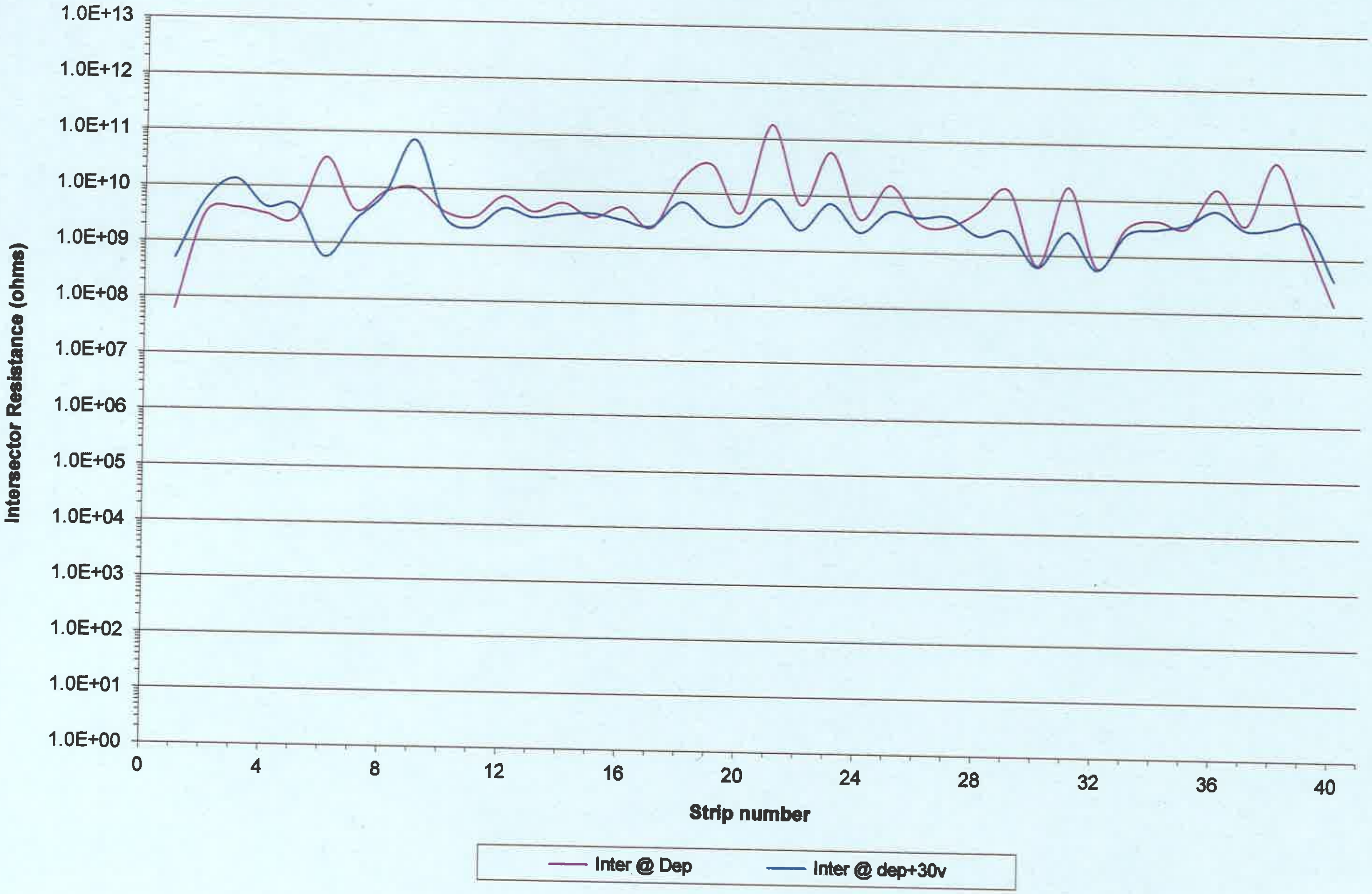


BB1-300 N-TYPE
2852-14 Junction side Dep=30V





BB1-300 N-TYPE
2852-14 Ohmic side Dep=30V



BB1-300 N-TYPE
2852-14 Ohmic side Dep=30V