



FIG 44 Triple Slope

Input values
Input Data
Result
Data sheet (approx)

Protected pairs N	1		Pmax(W)
Vcc	35	V	
Re	0.22	Ω	0.939
R1	3031.01	Ω	0.003
R2	113.885	Ω	0.020
R3*	227.5	Ω	0.066
R4	3127.68	Ω	0.126
R5	2041.21	Ω	0.045
R6	475.878	Ω	0.117
VzD2	12	V	
Vref	17.844	V	
VbeQ2	0.6	V	
ID1	0.00461	A	
VID1	0.6	V	
ID2	0.0097	A	

VbeQ2

0.600 Check Eqn8
0.600 Check Eqn9

*For N protected pairs of o/p devices, R3 actual = R3xN

Vce	Ic	Vout	
0.0000	7.9415	33.2529	Dual
28.4000	2.4000	6.0720	
69.9890	0.0500	-35.0000	
0.0000	12.5000	32.2500	Triple
16.1000	4.8000	17.8440	
28.4000	2.4000	6.0720	
69.9890	0.0500	-35.0000	S/C
34.5484	2.0526	0.00	
70.91			

28.400

FIG 28 Dual Slope

Delete R4 from Fig 44 eg R4≈ 100GΩ
(Remove D1, D3, R7)

