

\* DATE: Aug 26/04  
 \* LOT: T46C WAF: 2004  
 \* Temperature\_parameters=Default\*  
 \*\*\*temp mod\*\*\* .LIB NOM

.MODEL NOTCHEDROW C  
 .MODEL HR R  
 .MODEL N NMOS (

LEVEL = 53

+VERSION = 3.1	TNOM = 27	TOX = 7.8E-9
+XJ = 1E-7	NCH = 2.2E17	VTH0 = 0.5490813
+K1 = 0.5749179	K2 = 0.0163016	K3 = 86.4438467
+K3B = -2.4838433	W0 = 2.749916E-5	NLX = 1.416066E-7
+DVT0W = 0	DVT1W = 0	DVT2W = 0
+DVT0 = 6.0353135	DVT1 = 1	DVT2 = -0.1328729
+U0 = 421.3862314	UA = -1.41643E-10	UB = 1.752303E-18
+UC = 3.989584E-11	VSAT = 1.583891E5	A0 = 1.2236736
+AGS = 0.1918056	B0 = 1.038291E-6	B1 = 5E-6
+KETA = 5.546028E-3	A1 = 0	A2 = 0.4476846
+RDSW = 764.4088626	PRWG = 0.0377705	PRWB = -0.1206337
+WR = 1	WINT = 1.518873E-7	LINT = 2.97436E-9
+XL = -5E-8	XW = 1.5E-7	DWG = -4.754209E-9
+DWB = 7.013949E-9	VOFF = -0.0888645	NFACTOR = 1.2729614
+CIT = 0	CDSC = 2.4E-4	CDSCD = 0
+CDSCB = 0	ETA0 = 0.6947057	ETAB = -6.98415E-3
+DSUB = 0.8431979	PCLM = 1.3930628	PDIBLC1 = 1.950934E-3
+PDIBLC2 = 4.57703E-3	PDIBLCB = -1E-3	DROUT = 0.0991119
+PSCBE1 = 6.908691E8	PSCBE2 = 4.912459E-4	PVAG = 0
+DELTA = 0.01	RSH = 3.2	MOBMOD = 1
+PRT = 0	UTE = -1.5	KT1 = -0.11
+KT1L = 0	KT2 = 0.022	UA1 = 4.31E-9
+UB1 = -7.61E-18	UC1 = -5.6E-11	AT = 3.3E4
+WL = 0	WLN = 1	WW = 0
+WWN = 1	WWL = 0	LL = 0
+LLN = 1	LW = 0	LWN = 1
+LWL = 0	CAPMOD = 2	XPART = 0.5
+CGDO = 2.91E-10	CGSO = 2.91E-10	CGBO = 1E-12
+CJ = 1.003925E-3	PB = 0.8	MJ = 0.3422887
+CJSW = 3.505428E-10	PBSW = 0.8	MJSW = 0.1352212
+CJSWG = 1.82E-10	PBSWG = 0.8	MJSWG = 0.1352212
+CF = 0	PVTH0 = -0.0153579	PRDSW = -73.1424529
+PK2 = 1.780077E-3	WKETA = -5.618765E-3	LKETA = -2.160521E-3

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 .MODEL P PMOS (

LEVEL = 53

+VERSION = 3.1	TNOM = 27	TOX = 7.8E-9
+XJ = 1E-7	NCH = 8.52E16	VTH0 = -0.6807607
+K1 = 0.4403339	K2 = -0.0138626	K3 = 54.9133679
+K3B = -5	W0 = 5.301139E-6	NLX = 2.393615E-7
+DVT0W = 0	DVT1W = 0	DVT2W = 0
+DVT0 = 1.3829615	DVT1 = 0.5424266	DVT2 = -0.0265749
+U0 = 155.5194682	UA = 1E-10	UB = 1.979139E-18
+UC = -1.38347E-11	VSAT = 1.789066E5	A0 = 1.103255
+AGS = 0.3728533	B0 = 2.551996E-6	B1 = 5E-6
+KETA = -7.333027E-3	A1 = 5.697551E-4	A2 = 0.3
+RDSW = 3.951913E3	PRWG = -0.1527603	PRWB = 0.0444598
+WR = 1	WINT = 1.542662E-7	LINT = 0
+XL = -5E-8	XW = 1.5E-7	DWG = -1.456452E-8
+DWB = 1.043713E-8	VOFF = -0.1265542	NFACTOR = 2
+CIT = 0	CDSC = 2.4E-4	CDSCD = 0

+CDSCB	= 0	ETA0	= 1.751433E-3	ETAB	= 1.401174E-4
+DSUB	= 0.0102926	PCLM	= 3.4183459	PDIBLC1	= 0.0568076
+PDIBLC2	= 2.128314E-3	PDIBLCB	= -1E-3	DROUT	= 0.3276874
+PSCBE1	= 8E10	PSCBE2	= 5.14442E-10	PVAG	= 1.3183679
+DELTA	= 0.01	RSH	= 2.6	MOBMOD	= 1
+PRT	= 0	UTE	= -1.5	KT1	= -0.11
+KT1L	= 0	KT2	= 0.022	UA1	= 4.31E-9
+UB1	= -7.61E-18	UC1	= -5.6E-11	AT	= 3.3E4
+WL	= 0	WLN	= 1	WW	= 0
+WWN	= 1	WWL	= 0	LL	= 0
+LLN	= 1	LW	= 0	LWN	= 1
+LWL	= 0	CAPMOD	= 2	XPART	= 0.5
+CGDO	= 2.49E-10	CGSO	= 2.49E-10	CGBO	= 1E-12
+CJ	= 1.433541E-3	PB	= 0.99	MJ	= 0.5527511
+CJSW	= 4.291576E-10	PBSW	= 0.99	MJSW	= 0.3523334
+CJSWG	= 4.42E-11	PBSWG	= 0.99	MJSWG	= 0.3523334
+CF	= 0	PVTH0	= 8.946877E-3	PRDSW	= -35.1190446
+PK2	= 1.580013E-3	WKETA	= 3.20553E-3	LKETA	= -1.413928E-4

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\* \*\*\*temp mod\*\*\* .ENDL  
.END