

Switching/Amplifier Transistors

MOSFETs - N-Channel

Type	Package	V _{GS(TH)} V		BV _{DSS} V Min	I _{DSS} pA Max	I _{GSS} pA Max	g _{fs} μmho Min	r _{DS(ON)} Ω Max	I _{D(ON)} mA Min	I _{D(ON)} mA Max
		Min	Max							
2N4351	TO-72	1.0	5.0	25	10nA	10	1000	300	3	-
3N170	TO-72	1.0	2.0	25	10nA	10	1000	200	10	-
3N171	TO-72	1.5	3.0	25	10nA	10	1000	200	10	-
IT1750	TO-72	0.5	3.0	25	10nA	10	3000	50	10	-
M116	TO-72	1.0	5.0	30	10nA	100	-	100	-	-
M117	TO-72	1.0	5.0	30	10nA	1	-	100	-	-

MOSFETs - P-Channel

Generally used where max. isolation between signal source and logic drive is required. Switch "ON" resistance varies with signal amplitude.

Type	Package	V _{GS(TH)} V		BV _{DSS} V Min	I _{DSS} pA Max	I _{GSS} pA Max	g _{fs} μmho Min	r _{DS(ON)} Ω Max	I _{D(ON)} mA Min	I _{D(ON)} mA Max
		Min	Max							
2N4352	TO-72	-1.0	-5.0	-25	-10nA	10	1000	600	-3	-
3N163	TO-72	-2.0	-5.0	-40	-200	-10	2000	250	-5	-30
3N164	TO-72	-2.0	-5.0	-30	400	10	1000	300	-3	-30
3N172	TO-72	-2.0	-5.0	-40	-400	-200	-	250	-5	-30
3N173	TO-72	-2.0	-5.0	-30	-10nA	-500	-	350	-5	-30
IT1700	TO-72	-2.0	-5.0	-40	200	-	2000	400	-2	-
IT1701	TO-72	-2.0	-5.0	-40	200	100	2000	400	-2	-

Diodes, Low Leakage

Used to protect the inputs of MOSFETs such as 3N163, while maintaining input leakage < 0.1 pA.

Type	Package	I _R @ 1V (pA) Typ	I _R @ 10V, 125°C (nA) Max	BV _R @ 1μA (V) Min	V _F @ 10mA	
					(V) Min	(V) Max
ID100	TO-78	0.1	10	30	0.8	1.1
ID101	TO-71	0.1	10	30	0.8	1.1

Differential Amplifier Transistors - Monolithic Duals

Junction FETs - N-Channel

Type	Package	V _{GS1-2} mV Max	ΔV _{GS} μV/°C Max	I _G pA Max	BV _{GSS} V Min	V _p V		g _{fs} mmho*		I _{DSS} mA		e _n nV/√Hz Max
						Min	Max	Min	Max	Min	Max	
2N3954	TO-71	5	10	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N3954A	TO-71	5	5	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N3955	TO-71	10	25	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N3955A	TO-71	5	15	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N3956	TO-71	15	50	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N3957	TO-71	20	75	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N3958	TO-71	25	100	-50	-50	-1.0	-4.5	1	3	0.5	5.0	160 @ 100Hz
2N5196	TO-71	5	5	-15	-50	-0.7	-4.0	0.7 @ 200μA		0.7	7.0	20 @ 1kHz
2N5197	TO-71	5	10	-15	-50	-0.7	-4.0	0.7 @ 200μA		0.7	7.0	20 @ 1kHz
2N5198	TO-71	10	20	-15	-50	-0.7	-4.0	0.7 @ 200μA		0.7	7.0	20 @ 1kHz
2N5199	TO-71	15	40	-15	-50	-0.7	-4.0	0.7 @ 200μA		0.7	7.0	20 @ 1kHz

* @ I_{DSS}