

Small Signal Leaded Devices

Field Effect Transistors D-MOS FET

Type	Pkg	Mode	V _{DS} (V)	I _D (mA)	r _{DS (on)} typ (Ω)	y _{fs} typ (mA/V)	V _{GS} (th) (V)	t _{on} max (ns)	t _{off} max (ns)
N-CHANNEL									
2N7000	TO-92	ENH	60	500	2.5	200	0.8-3.0	20	20
BS107	TO-92	ENH	200	120	15	250	1.8-2.8	10	25
BS170	TO-92	ENH	60	500	2.5	200	0.8-3.0	10	10
BSD12	TO-72	DPL	20	50	15	15	<2.0	1	5
BSD212	TO-72	ENH	10	50	25	15	0.1-2.0	1	5
BSD213	TO-72	ENH	10	50	25	15	0.1-2.0	1	5
BSD214	TO-72	ENH	20	50	25	15	0.1-2.0	1	5
BSD215	TO-72	ENH	20	50	25	15	0.1-2.0	1	5
BSN10	TO-92	ENH	50	175	10	60	0.4-1.8	5 _{typ}	10 _{typ}
BSN10A	TO-92	ENH	50	175	10	60	0.4-1.8	5 _{typ}	10 _{typ}
BSN204	TO-92	ENH	200	250	5	400	0.4-1.8	10	30
BSN204A	TO-92	ENH	200	250	5	400	0.4-1.8	10	30
BSN205	TO-92	ENH	200	300	4.5	350	0.8-2.8	10	20
BSN205A	TO-92	ENH	200	300	4.5	350	0.8-2.8	10	20
BSN254	TO-92VAR.	ENH	250	300	5	400	0.8-2.0	10	30
BSN254A	TO-92VAR.	ENH	250	300	5	400	0.8-2.0	10	30
BSN274	TO-92VAR.	ENH	270	250	6.5	400	0.8-2.0	10	30
BSN274A	TO-92VAR.	ENH	270	250	6.5	400	0.8-2.0	10	30
BST70A	TO-92	ENH	80	500	2	300	1.5-3.5	10	15
BST72A	TO-92	ENH	80	300	7	150	1.5-3.5	10	10
BST74A	TO-92	ENH	200	250	6	250	0.8-2.8	10	25
BST76A	TO-92	ENH	180	300	6	250	0.7-2.7	10	15
BST78	TO-126	ENH	450	750	10	400	2.0-4.0	10	100
BST97	TO-18	ENH	180	300	6	250	0.7-2.7	10	15
VN2406L	TO-92VAR.	ENH	240	210	<6	400	0.8-2.0	10	30
VN2410L	TO-92VAR.	ENH	240	150	<10	400	0.8-2.0	10	30
P-CHANNEL									
BST100	TO-92	ENH	60	300	4.5	200	1.5-3.5	4	20
BST110	TO-92	ENH	50	250	7.5	125	1.5-3.5	4	10
BS250	TO-92	ENH	45	250	9.0	125	1.0-3.5	4	10

Field Effect Transistors J-FET

Type	Pkg	±V _{DS} (V)	I _{DSS} (mA)	-V _{h(p) GS} (V)	R _{DS (on)} max (Ω)	C _{rs} max (pF)	@ V _{GS} (V)	t _{off} (ns)
2N3822	TO-72	50	2-10	<6	—	3.0	0	—
2N3823	TO-72	30	4-20	<8	—	2.0	0	—
2N3966	TO-72	30	>2	4-6	220	1.5	7	100
2N4091	TO-18	40	>30	5-10	30	5.0	20	40
2N4092	TO-18	40	>15	2-7	50	5.0	20	60
2N4093	TO-18	40	>8	1-5	80	5.0	20	80
2N4391	TO-18	40	50-150	4-10	30	3.5	12	20
2N4392	TO-18	40	25-75	2-5	60	3.5	7	35
2N4393	TO-18	40	5-30	0.5-3	100	3.5	5	50
2N4416	TO-72	30	5-15	—	—	0.8	—	—
2N4856	TO-18	40	>50	4-10	25	8.0	10	25
2N4857	TO-18	40	25-100	2-6	40	8.0	10	50
2N4858	TO-18	40	8-80	0.8-4	60	8.0	10	100

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