



National
Semiconductor™

Discrete POWER & Signal
Technologies

P-Channel JFETs

Switches / Choppers

Device No.	Case Style	BV _{GS} BV _{epo} (V) @ I _G Min (μA)	I _{SS} (nA) @ V _{DG} Max (V)	I _{D(on)} (nA) @ V _{DS} Max (V)	V _P (V) @ V _{DS} Min Max (V)	I _D (nA)	I _{DSS} (mA) @ V _{DS} Min Max (V)	r _{ds(on)} (Ω) @ I _D Max (mA)	C _{iss}		t _{off} (ns) Max	Process No.	Pkg. No.
									(pF) @ V _{DS} Max (V)	I _{GS} (V)			
J174	TO-92	30 1	1 20	1 -15 10	5 10 -15 0.01	20 100 15	85 1	11 0 10	5.5 0 10	5	88 (7-14)	94	
J175	TO-92	30 1	1 20	1 -15 10	3 6 -15 0.01	7 60 15	125 0.5 11	0 10 5.5 0	10 10	10	88 (7-14)	94	
J176	TO-92	30 1	1 20	1 -15 10	1 4 -15 0.01	2 26 15	250 0.25 11	0 10 5.5 0	10 10	15	88 (7-14)	94	
J177	TO-92	30 1	1 20	1 -15 10	0.8 2.5 -15 0.01	1.5 20 15	300 0.1 11	0 10 5.5 0	10 10	20	88 (7-14)	94	
P1086	TO-92	30 1	2 15	10 -15 12	10 -15 1	10 20 15	75 1 45	-15 0 10 0	12 65	88	88	92	
P1087	TO-92	30 1	2 15	10 -15 7	5 -15 1	5 20 15	150 1 45	-15 0 10 0	7 125	88	88	92	

General Purpose Amplifiers

Device No.	Case Style	BV _{GS} BV _{epo} (V) @ I _G Min (μA)	I _{SS} (nA) @ V _{DG} Max (V)	V _P (V) @ V _{DS} Min Max (V)	I _D (nA)	I _{DSS} (mA) @ V _{DS} Min Max (V)	G _{fs} (mmho) @ V _{DS} Min Max (V)	C _{iss}		NF nV/√Hz @ 1 Max (Hz)	Process No.	Pkg. No.
								(pF) @ V _{DS} Max (V)	I _{GS} (V)			
2N3820	TO-92	20 10	20 10	8 -10 10	10 10	0.3 15 10	0.8 5 10	32 -10 0	16 -10 0	0	89	94
2N5460	TO-92	40 10	5 20	0.75 6 -15 1	1 5 10 1	1 5 10 1	1 4 15 7	7 -15 0	2 -15 0	115 100	89 (7-47)	92
2N5461	TO-92	40 10	5 20	1 7.5 -15 1	2 9 10 1.5	2 9 10 1.5	5 15 7	7 -15 0	2 -15 0	115 100	89 (7-47)	92
2N5462	TO-92	40 10	5 20	1.8 9 -15 1	4 16 10 2	4 16 10 2	6 15 7	7 -15 0	2 -15 0	115 100	89 (7-47)	92
J270	TO-92	30 1	0.2 20	0.5 2 -15 0.001	2 15 15	2 15 15	6 15 15	120 -15 0	15 -15 0	110 1000	88	94
J271	TO-92	30 1	0.2 20	1.5 4.5 -15 0.001	6 50 15	6 50 15	8 18	120 -15 0	15 -15 0	110 1000	88	94
PN4360	TO-92	10 10	10 15	0.7 10 -10 1	3 30 10 2	8 10 2	8 10	25 -10 0	5 -10 0	190 100	89	92
PN5033	TO-92	10 10	10 15	0.3 2.5 -10 1	0.3 3.5 10 1	0.3 3.5 10 1	1 5 10	20 -10 0	7 -10 0	100 100	89	92

NOTE: National preferred device for each process in bold. Number shown in parentheses indicates location (section-page) of device datasheet.

t = typical value