



National
Semiconductor™

Discrete POWER & Signal
Technologies

P-Channel JFETs

Switches / Choppers

Device No.	Case Style	BV _{gss} BV _{gdo} (V) @ I _c		I _{gss} (nA) @ V _{DS} Max (V)	I _{diom} (nA) @ V _{DS} Max (V)		V _P (V) @ V _{DS} Min Max (V)		I _D (nA)		I _{boss} (mA) @ V _{DS} Min Max (V)		r _{ds(on)} (Ω) @ I _D Max (mA)		C _{iss} (pF) @ V _{DS} Max (V)		C _{rss} (pF) @ V _{DS} Max (V)		t _{on} (ns) Max		Process No.	Pkg. No.			
		Min	Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max					
J174	TO-92	30	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	20	1	-15	10	3	6	-15	0.01	7	60	15	125	0.5	11	0	10	5.5	0	10	10	88 (7-14)	94
J176	TO-92	30	1	20	1	-15	10	1	4	-15	0.01	2	25	15	250	0.25	11	0	10	5.5	0	10	15	88 (7-14)	94
J177	TO-92	30	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	20	88 (7-14)	94
P1086	TO-92	30	1	2	15	-15	12	10	-15	1	1	10	20	75	1	45	-15	0	10	0	12	65	88	92	
P1087	TO-92	30	1	2	15	-15	7	5	-15	1	1	5	20	150	1	45	-15	0	10	0	7	125	88	92	

General Purpose Amplifiers

Device No.	Case Style	BV _{gss} BV _{gdo} (V) @ I _c		I _{gss} (nA) @ V _{DS} Max (V)	V _P (V) @ V _{DS} Min Max (V)		I _D (nA)		I _{boss} (mA) @ V _{DS} Min Max (V)		G _{fs} (mmho) @ V _{DS} Min Max (V)		C _{iss} (pF) @ V _{DS} Max (V)		C _{rss} (pF) @ V _{DS} Max (V)		NF nV/√Hz @ f Max (Hz)		Process No.	Pkg. No.				
		Min	Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max								
2N3820	TO-92	20	10	20	10	8	-10	10	0.3	15	10	0.8	5	10	32	-10	0	16	-10	0	89	94		
2N5460	TO-92	40	10	5	20	0.75	6	-15	1	5	10	1	4	15	7	-15	0	2	-15	0	89 (7-47)	92		
2N5461	TO-92	40	10	5	20	1	7.5	-15	1	2	9	1.5	5	15	7	-15	0	2	-15	0	89 (7-47)	92		
2N5462	TO-92	40	10	5	20	1.8	9	-15	1	4	16	2	6	15	7	-15	0	2	-15	0	89 (7-47)	92		
J270	TO-92	30	1	0.2	20	0.5	2	-15	0.001	2	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	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	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	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