

N-Channel JFETs

Switches / Choppers

Device No.	Case Style	BV _{GSS} BV _{GDO} (V) @ I _G Min (μA)		I _{GSS} *I _{DGO} (nA) @ V _{DG} Max (V)		I _{D(off)} (nA) @ V _{DS} V _{GS} Max (V) (V)			V _P (V) @ V _{DS} I _D Min Max (V) (nA)				I _{DSS} (mA) @ V _{DS} Min Max (V)		r _{ds(on)} (Ω) @ I _D Max (mA)		C _{iss} (pF) @ V _{DS} V _{GS}			C _{rss} (pF) @ V _{DS} V _{GS}			t _(off) (ns) Max	Process No.	Pkg. No.	
		Min	Max	Min	Max	Max	Max	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max					
2N5555	TO-92	25	10	1	15	10	12	-10	10		15	15	150		5	15	0	1.2	0	-10	25	50	92			
2N5638	TO-92	30	10	1	15	1	15	-12	12		50	20	30	1	10	0	-12	4	0	-12		51	92			
2N5639	TO-92	30	10	1	15	1	15	-8	8		25	20	60	1	10	0	-12	4	0	-8		51	92			
2N5640	TO-92	30	10	1	15	1	15	-6	6		5	20	100	1	10	0	-12	4	0	-6		51	92			
J105	TO-92	25	10	3	15	3	5	10	4.5	10	15	10	500	15	3							59 (7-1)	92			
J106	TO-92	25	10	3	15	3	5	10	2	6	15	10	200	15	6	17						59 (7-1)	92			
J107	TO-92	25	10	3	15	3	5	10	0.5	4.5	15	10	100	15	8	13						59 (7-1)	92			
J108	TO-92	25	10	3	15	3	5	-10	3	10	15	10	80	15	8	10						58 (7-5)	92			
J109	TO-92	25	10	3	15	3	5	-10	2	6	15	10	40	15	12	10						58 (7-5)	92			
J110	TO-92	25	10	3	15	3	5	-10	0.5	4	15	10	10	15	18	10						58 (7-5)	92			
J111	TO-92	35	1	10	15	1	5	-10	3	10	5	100	20	15	30	1						51 (7-9)	92			
J112	TO-92	35	1	10	15	1	5	-10	1	5	5	100	5	15	50	1						51 (7-9)	92			
J113	TO-92	35	1	10	15	1	5	-10	0.5	3	5	100	2	15	100	1						51 (7-9)	92			
PN4091	TO-92	40	1	0.2*	20	0.2	20	-12	5	10	20	1	30	20	30		16	20	0	5	20	0	40	51	92	
PN4092	TO-92	40	1	0.2*	20	0.2	20	-8	2	7	20	1	15	20	50		16	20	0	5	20	0	60	51	92	
PN4093	TO-92	40	1	0.2*	20	0.2	20	-6	1	5	20	1	8	20	80		16	20	0	5	20	0	80	51	92	
PN4391	TO-92	40	1	0.1	20	0.1	20	-12	4	10	20	1	50	20	30		14	20	0	3.5	0	-12	35	51	92	
PN4392	TO-92	40	1	0.1	20	0.1	20	-7	2	5	20	1	25	150	20	60		14	20	0	3.5	0	-7	80	51	92
PN4393	TO-92	40	1	0.1	20	0.1	20	-5	0.5	3	20	1	5	75	20	100		14	20	0	3.5	0	-5	130	51	92
PN4856	TO-92	40	1	0.25	20	0.25	15	-10	4	10	15	1	50	30	15	25		18	0	-10	8	0	-10	25	51	92
PN4857	TO-92	40	1	0.25	20	0.25	15	-10	2	6	15	0.5	20	100	15	40		18	0	-10	8	0	-10	50	51	92
PN4858	TO-92	40	1	0.25	20	0.25	15	-10	0.8	4	15	0.5	8	80	15	60		18	0	-10	8	0	-10	100	51	92
PN4859	TO-92	30	1	0.25	15	0.25	15	-10	4	10	15	0.5	50	15	25		18	0	-10	8	0	-10	25	51	92	
PN4860	TO-92	30	1	0.25	15	0.25	15	-10	2	6	15	0.5	20	100	15	40		18	0	-10	8	0	-10	50	51	92
PN4861	TO-92	30	1	0.25	15	0.25	15	-10	0.8	4	15	0.5	8	80	15	60		18	0	-10	8	0	-10	100	51	92

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

N-Channel Switches / Choppers (continued)

Device No.	Case Style	BV _{GSS} BV _{GDO} (V) @ I _G Min (μA)		I _{GSS} *I _{DGO} (nA) @ V _{DG} Max (V)		I _{D(off)} (nA) @ V _{DS} Max (V) V _{GS} (V)			V _P (V) @ V _{DS} I _D (nA)				I _{DSS} (mA) @ V _{DS} Max (V)		r _{ds(on)} (Ω) @ I _D Max (mA)		C _{iss} (pF) @ V _{DS} V _{GS} (V)			C _{rss} (pF) @ V _{DS} V _{GS} (V)			t _(off) (ns) Max	Process No.	Pkg. No.	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max						
PN5432	TO-92	25	1	0.2	15	0.2	5	-10	4	10	5	3	150	15	5	10	30	0	-10	15	0	-10	36	58	92	
PN5433	TO-92	25	1	0.2	15	0.2	15	-10	3	9	5	3	100	15	7	10	30	0	-10	15	0	-10	36	58	92	
PN5434	TO-92	25	1	0.2	15	0.2	5	-10	1	4	5	3	30	15	10	10	30	0	-10	15	0	-10	36	58	92	
TIS73	TO-92	30	1	2	15	10	15	-10	4	10	15	4	50	15	25		18	0	-10	8	0	-10	25	54 (7-71)	97	
TIS74	TO-92	30	1	2	15	10	15	-10	2	6	15	4	20	100	15	40		18	0	-10	8	0	-10	50	54 (7-71)	97
TIS75	TO-92	30	1	2	15	10	15	-10	0.8	4	20	4	8	80	15	60	18	0	-10	8	0	-10		54	97	
U1897	TO-92	40	1	0.2*	20				5	10	20	1	30	20	30	1	16	20	0	5	0	-20	40	51	92	
U1898	TO-92	40	1	0.2*	20				2	7	20	1	15	20	50	1	16	20	0	5	0	-20	60	51	92	
U1899	TO-92	40	1	0.2*	20				1	5	20	1	8	20	80	1	16	20	0	5	0	-20	80	51	92	

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

N-Channel JFETs

RF, VHF, UHF Amplifiers

Device No.	Case Style	BV _{GSS} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		V _P (V) @ V _{DS} I _D			I _{DSS} (mA) @ V _{DS}			R _e Y _{fs} (mmho) @ Fq.		C _{iss} (pF) @ V _{DS} V _{GS}			C _{rss} (pF) @ V _{DS} V _{GS}			NF (dB) @ R _G = 1k Freq (MHz)		Process No.	Pkg. No.	
		Min	Max	Min	Max	Min	Max	(V)	(nA)	Min	Max	(V)	Min	Max	(MHz)	Max	(V)	(V)	Max	(V)	(V)			Max
2N3819	TO-92	25	1	2	15		8	15	2	2	20	15	1.6	100	8	15	0	4	15	0			50	94
2N5245	TO-92	30	1	1	20	1	6	15	10	5	15	15	4	400	4.5	15	0	1	15	0	4	400	90	97
2N5246	TO-92	30	1	1	20	0.5	4	15	10	1.5	7	15	2.5	400	4.5	15	0	1	15	0			90	97
2N5247	TO-92	30	1	1	20	1	8	15	10	8	24	15	4	400	4.5	15	0	1	15	0			90	97
2N5248	TO-92	30	1	5	20	1.5	8	15	10	4	20	15	3	200	6	15	0	2	15	0			50	94
2N5484	TO-92	25	1	1	20	0.3	3	15	10	1	5	15	2.5	100	5	15	0	1	15	0	3	100	50 (7-51)	92
2N5485	TO-92	25	1	1	20	0.5	4	15	10	4	10	15	3	400	5	15	0	1	15	0	4	400	50 (7-51)	92
2N5486	TO-92	25	1	1	20	2	6	15	10	8	20	15	3.5	400	5	15	0	1	15	0	4	400	50 (7-51)	92
2N5949	TO-92	30	1	1	15	3	7	15	100	12	18	15	3	100	6	15	0	2	15	0	5	100	50	97
2N5950	TO-92	30	1	1	15	2.5	6	15	100	10	15	15	3	100	6	15	0	2	15	0	5	100	50	97
2N5951	TO-92	30	1	1	15	2	5	15	100	7	13	15	3	100	6	15	0	2	15	0	5	100	50	97
2N5952	TO-92	30	1	1	15	1.8	3.5	15	100	4	8	15	1	100	6	15	0	2	15	0	5	100	50	97
2N5953	TO-92	30	1	1	15	0.8	3	15	100	2.5	5	15	1	100	6	15	0	2	15	0	5	100	50	97
J300	TO-92	25	1	0.5	15	1	6	10	1	6	30	10	4.5	0.001	5.5	10	5mA	1.7	10	5mA			90	92
J304	TO-92	30	1	0.1	20	2	6	15	1	5	15	15	t4.2	100									50	92
J305	TO-92	30	1	0.1	20	0.5	3	15	1	1	8	15	t3	100									50	92
J309	TO-92	25	1	1	15	1	4	10	1	12	30	10	t12	100	5	0	-10	2.5	0	-10			92 (7-27)	92
J310	TO-92	25	1	1	15	2	6.5	10	1	24	60	10	t12	100	5	0	-10	2.5	0	-10			92 (7-27)	92
PN4416	TO-92	30	1	0.1	20	2.5	6	15	1	5	15	15	4	400	4	15	0	0.8	15	0	4	400	50	92

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

t = typical value

N-Channel JFETs

Low Frequency - Low Noise Amplifiers

Device No.	Case Style	BV _{GSS} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		V _{GS(off)} (V) @ V _{DS} I _D				I _{DSS} (mA) @ V _{DS}			g _{fs} (R _e Y _{fs}) (mmho) V _{DS} f			C _{iss} (pF) V _{DS} V _{GS}			C _{rss} (pF) V _{DS}		NF nV/√Hz @ f		Process No.	Pkg. No.
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Max			
PF5101	TO-92	40	1	0.2	15	0.5	1.1	15	1	1	12	15	3.5	15	0.001	t12	15	0	t4	15	3.5	1000	51	92
PF5102	TO-92	40	1	0.2	15	0.7	1.6	15	1	4	20	15	7.5	15	0.001	t12	15	0	t4	15	3.5	1000	51	92
PF5103	TO-92	40	1	0.2	15	1.2	2.7	15	1	10	40	15	7.5	15	0.001	t12	15	0	t4	15	3.5	1000	51	92
PN4393	TO-92	40	1	0.1	20	0.5	3	20	1	5	30	20	t12	20	0.001	14	20	0	3.5	5	t8	10	51	92

t = typical value

Ultra Low Input Current Amplifiers

Device No.	Case Style	BV _{GSS} (V) @ I _G		I _{GSS} (pA) @ V _{DG}		V _P (V) @ V _{DS} I _D				I _{DSS} (μA) @ V _{DS}			G _{fs} (μmho) @ V _{DS}			C _{iss} (pF) @ V _{DS} V _{GS}			C _{rss} (pF) @ V _{DS} V _{GS}		Process No.	Pkg. No.	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Max				
PF5301	TO-92	30	1	1	15	0.6	3	10	1	30	500	10	70	300	10	3	10	0	1.5	10	0	53	92
PF5301-1	TO-92	30	1	1	15	0.6	1.8	10	1	30	500	10	70	300	10	3	10	0	1.5	10	0	53	92
PF5301-2	TO-92	30	1	1	15	1.7	3	10	1	30	500	10	70	300	10	3	10	0	1.5	10	0	53	92
PF5301-3	TO-92	30	1	1	15	1	2.4	10	1	30	500	10	70	300	10	3	10	0	1.5	10	0	53	92
PN4117	TO-92	40	10	10	20	0.6	1.8	10	1	30	90	10	70	210	10	3	10	0	1.5	10	0	53 (7-37)	92
PN4117A	TO-92	40	1	1	20	0.6	1.8	10	1	30	90	10	70	210	10	3	10	0	1.5	10	0	53	92
PN4118	TO-92	40	10	10	20	1	3	10	1	80	240	10	80	250	10	3	10	0	1.5	10	0	53 (7-37)	92
PN4118A	TO-92	40	1	1	20	1	3	10	1	80	240	10	80	250	10	3	10	0	1.5	10	0	53	92
PN4119	TO-92	40	10	10	20	2	6	10	1	200	600	10	100	330	10	3	10	0	1.5	10	0	53 (7-37)	92
PN4119A	TO-92	40	1	1	20	2	6	10	1	200	600	10	100	330	10	3	10	0	1.5	10	0	53	92
PN4120	TO-92	40	1	20	20	0.6	3	10	1	30	300	10	70	300	10	3	10	0	1.5	10	0	53	92
PN4120A	TO-92	40	1	5	20	0.6	3	10	1	30	300	10	70	300	10	3	10	0	1.5	10	0	53	92

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

N-Channel JFETs

General Purpose Amplifiers

Device No.	Case Style	BV _{GSS} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		V _P (V) @ V _{DS} I _D			I _{DSS} (mA) @ V _{DS}			G _{fs} (mmho) @ V _{DS}			C _{iss} (pF) @ V _{DS} V _{GS}			C _{rss} (pF) @ V _{DS} V _{GS}			NF nV / √Hz @ f		Process No.	Pkg. No.	
		Min	Max	Min	Max	Min	Max	(V)	(nA)	Min	Max	(V)	Min	Max	(V)	Max	(V)	(V)	Max	(V)	(V)	Max			(Hz)
2N5457	TO-92	25	10	1	15	0.5	6	15	10	1	5	15	1	5	15	7	15	0	3	15	0		55 (7-43)	92	
2N5458	TO-92	25	10	1	15	1	7	15	10	2	9	15	1.5	5.5	15	7	15	0	3	15	0		55 (7-43)	92	
2N5459	TO-92	25	10	1	15	2	8	15	10	4	16	15	2	6	15	7	15	0	3	15	0		55 (7-43)	92	
J201	TO-92	40	1	0.1	20	0.3	1.5	20	10	0.2	1	20	0.5		20								52 (7-18)	92	
J202	TO-92	40	1	0.1	20	0.8	4	20	10	0.9	4.5	20	1		20								52 (7-18)	92	
J203	TO-92	40	1	0.1	20	2	10	20	10	4	20	20	1.5		20								52	92	
J210	TO-92	25	1	0.1	15	1	3	15	1	2	15	15	4	12	15								90	92	
J211	TO-92	25	1	0.1	15	2.5	4.5	15	1	7	20	15	6	12	15								90 (7-22)	92	
J212	TO-92	25	1	0.1	15	4	6	15	1	15	40	15	7	12	15								90 (7-22)	92	
PN4302	TO-92	30	1	1	10		4	20	10	0.5	5	20	1		20	6	20	0	3	20	0	100	1000	52	92
PN4303	TO-92	30	1	1	10		6	20	10	4	10	20	2		20	6	20	0	3	20	0	100	1000	52	92
PN4304	TO-92	30	1	1	10		10	20	10	0.5	15	20	1		20	6	20	0	3	20	0	125	1000	52	92

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

General Purpose Dual JFETs

Device No.	Case Style	Op. Char.		$ V_{GS1-2} $ V_{OS} (mV) Max	Drift ($\mu V/^{\circ}C$) ΔV_{GS} Max	G_{fs} $\mu mhos$		G_{os} CMRR (μmho) (dB)		V_{gs} (V)		V_p (V)		I_{DSS} (mA)		G_{fs} (mmho)		I_{GSS} (pA) @ V_{DS}		C_{iss}	C_{rss}	BV (V)	NF nV/\sqrt{Hz} @ f		Pro. No.	Pkg. No.
		V_{DG} (V)	I_b (μA)			Min	Max	Max	Min	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max		Max	Max		
NPDS402	T0-69	10	200	10	10	1000	2000	2	95	2.3	0.5	2.5	0.5	10	2	7	25	30	8	3	50	20	10	98	69	
NPDS403	T0-69	10	200	10	25	1000	2000	2	95	2.3	0.5	2.5	0.5	10	2	7	25	30	8	3	50	20	10	98	69	
NPDS404	T0-69	10	200	15	25	1000	2000	2	95	2.3	0.5	2.5	0.5	10	2	7	25	30	8	3	50	20	10	98	69	
NPDS406	T0-69	10	200	40	80	1000	2000	2	95	2.3	0.5	2.5	0.5	10	2	7	25	30	8	3	50	20	10	98	69	
NPDS5565	T0-69	15	2000	10	25	7500	12.5K				0.5	3	5	30			100	20	12	3	40	50	10	96	69	
NPDS5566	T0-69	15	2000	20	50	7500	12.5K				0.5	3	5	30			100	20	12	3	40	50	10	96	69	
NPDS5911	T0-69	10	5000	10	20	5000	10K			0.3	4	1	5	7	40			100	15	5	1.2	25	20	10K	93	69
NPDS5912	T0-69	10	5000	15	40	5000	10K			0.3	4	1	5	7	40			100	15	5	1.2	25	20	10K	93	69
NPDS8301	T0-69	20	200	5	10	700	1200	5		0.3	3.5	0.5	3.5	0.5	6	1	4	100	20	4.5	1.2	40	50	100	83	69
NPDS8302	T0-69	20	200	10	15	700	1200	5		0.3	3.5	0.5	3.5	0.5	6	1	4	100	20	4.5	1.2	40	50	100	83	69
NPDS8303	T0-69	20	200	15	25	700	1200	5		0.3	3.5	0.5	3.5	0.5	6	1	4	100	20	4.5	1.2	40	50	100	83	69
NPDS8304	T0-69	20	200	20	30	700	1200	5		0.3	3.5	0.5	3.5	0.5	6	1	4	100	20	4.5	1.2	40	50	100	83	69

P-Channel JFETs

Switches / Choppers

Device No.	Case Style	BV _{GSS} BV _{GDO} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		I _{D(off)} (nA) @ V _{DS} V _{GS}			V _P (V) @ V _{DS} I _D				I _{DSS} (mA) @ V _{DS}			r _{ds(on)} (Ω) @ I _D		C _{iss} (pF) @ V _{DS} I _{GS}			C _{rss} (pF) @ V _{DS} V _{GS}			t _(off) (ns)	Process No.	Pkg. No.
		Min	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max					
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	88 (7-14)	94
J176	TO-92	30	1	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	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	10	-15	12		10	-15	1	10		20	75	1	45	-15	0	10	0	12	65	88	92
P1087	TO-92	30	1	2	15	10	-15	7		5	-15	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 _G		I _{GSS} (nA) @ V _{DG}		V _P (V) @ V _{DS} I _D			I _{DSS} (mA) @ V _{DS}			G _{fs} (mmho) @ V _{DS}			C _{iss} (pF) @ V _{DS} V _{GS}			C _{rss} (pF) @ V _{DS} V _{GS}			NF nV/√Hz @ f		Process No.	Pkg. No.	
		Min	Max	Max	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max	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	1	5	10	1	4	15	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	5	15	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	6	15	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	6	15	15	t20	-15	0	t5	-15	0	t10	1000	88	94
J271	TO-92	30	1	0.2	20	1.5	4.5	-15	0.001	6	50	15	8	18		t20	-15	0	t5	-15	0	t10	1000	88	94
PN4360	TO-92	10	10	10	15	0.7	10	-10	1	3	30	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	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