

N-Channel JFETs



General Purpose Dual JFETs

Type No.	Case Style	Operating Conditions for these Characteristics										I _{gss} (pA) @ V _{GS} Max	I _{DSS} Match %	G _{fs} Match %	G _{osc1-2} (μmho) 125°C	Process No.	Pkg. No.
		Op. Char. V _{GS} (mV) Max	Drift (μV/°C) ΔV _{GS} Max	I _G (μA) Max	G _{oss} (μmho) Min	C _{MRR} (dB) Min	V _{GS} (V) Min	V _P (V) Min	I _{DSS} (mA) Min	G _{fs} (mmho) Min	G _{osc} (μmho) Min						
2N3921	TO-71	10 700 5	10 250	1500	20	0.5 4	-3.0 1	1 10	1.5 7.5	35	1000 30	18 6 50	100 1000	5	5	83	12
2N3922	TO-71	10 700 5	25 250	1500	20	0.5 4	-3.0 1	1 10	1.5 7.5	35	1000 30	18 6 50	100 1000	5	5	83	12
2N3934	TO-71	10 200 5	10 100	300	5	0.5 4	See 2N3954-6 as an improved replacement										
2N3935	TO-71	10 200 5	25 100	300	5	0.5 4	See 2N3954-6 as an improved replacement										
2N3954A	TO-71	20 200 5	5 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	5 3	3	83	12
2N3954	TO-71	20 200 5	10 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	5 3	3	83	12
2N3955A	TO-71	20 200 5	15 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	5 3	3	83	12
2N3955	TO-71	20 200 10	25 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	5 5	5	83	12
2N3956	TO-71	20 200 15	50 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	5 5	5	83	12
2N3957	TO-71	20 200 20	75 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	10 10	10	83	12
2N3958	TO-71	20 200 25	100 50			0.5 4	1 4.5	0.5 5	1 3	35	100 30	4 1.2 50	150 100	15 15	15	83	12
2N4082	TO-71	10 200 15	10 100	300	10	0.5 4	See 2N3954-6 as an improved replacement										
2N4083	TO-71	10 200 15	25 100	300	10	0.5 4	See 2N3954-6 as an improved replacement										
2N4084	TO-71	10 700 15	10 250	1500	20	0.5 4	3 1	10 1.5	7.5 35	1000 30	18 6 50	100 1000	5 5	5	83	12	
2N4085	TO-71	10 700 15	25 250	1500	20	0.5 4	3 1	10 1.5	7.5 35	1000 30	18 6 50	100 1000	5 5	5	83	12	
2N5045	TO-71	15 200 5.0	67				0.5 4.5	0.5 8	1.5 6	25	250 30	8 4 50	200 10			83	12
2N5046	TO-71	15 200 10	133				0.5 4.5	0.5 8	1.5 6	25	250 30	8 4 50	200 10			83	12
2N5047	TO-71	15 200 15	200				0.5 4.5	0.5 8	1.5 6	25	250 30	8 4 50	200 10			83	12
2N5196	TO-71	20 200 5	5	15 700 1500	4	0.2 3.8	0.7 4.5	0.7 7	1 4	50	25 30	6 2 50	20 1000	5 3	1	83	12
2N5197	TO-71	20 200 5	10 15 700 1500		4	0.2 3.8	0.7 4.5	0.7 7	1 4	50	25 30	6 2 50	20 1000	5 3	1	83	12
2N5198	TO-71	20 200 10	20 15 700 1500		4	0.2 3.8	0.7 4.5	0.7 7	1 4	50	25 30	6 2 50	20 1000	5 3	1	83	12
2N5199	TO-71	20 200 15	40 17 700 1500		4	0.2 3.8	0.7 4.5	0.7 7	1 4	50	25 30	6 2 50	20 1000	5 3	1	83	12
2N5452	TO-71	20 200 5	5		1	0.2 4.2	1 4.5	0.5 5	1 3	3	100 30	4 1.2 50	20 1000	5 3	0.25	83	12
2N5453	TO-71	20 200 10	10		1	0.2 4.2	1 4.5	0.5 5	1 3	3	100 30	4 1.2 50	20 1000	5 3	0.25	83	12
2N5454	TO-71	20 200 15	25		1	0.2 4.2	1 4.5	0.5 5	1 3	3	100 30	4 1.2 50	20 1000	5 3	0.25	83	12
2N5545	TO-71	15 200 5	10 50				0.5 4.5	0.5 8	1.5 6	25	100 30	6 2 50	180 10	5 3	1	83	12
2N5546	TO-71	15 200 10	20 50				0.5 4.5	0.5 8	1.5 6	25	100 30	6 2 50	200 10	10 5	2	83	12
2N5547	TO-71	15 200 15	40 50				0.5 4.5	0.5 8	1.5 6	25	100 30	6 2 50	200 10	10 10	3	83	12
2N5561	TO-71	10 700 5	5	2000 3000	4	0.2 2.7	0.8 3	1 10			100 30	15 4 50	10 50	5 3	0.3	98	12
2N5562	TO-71	10 700 10	10	2000 3000	4	0.2 2.7	0.8 3	1 10			100 30	15 4 50	10 50	5 3	0.4	98	12
2N5563	TO-71	10 700 15	25	2000 3000	4	0.2 2.7	0.8 3	1 10			100 30	15 4 50	10 50	5 3	0.5	98	12

I_D = 100 μA for V_{GS} for 2N5561/12/3 only.

T-27-01

General Purpose Dual JFETs (Continued)

N-Channel JFETs

Type No.	Case Style	Operating Conditions for these Characteristics										Process Pkg. No.															
		Op. Char. V _{GS1} (V)	I _b (μA)	V _{GS} (mV)	Drift (μV/°C)	I _g (pA)	G _{fs} (μmhos)	CMRR (dB)	V _{gs} (V)	V _p (V)	I _{BSS} (mA)		G _{fs} (mmho)	I _{GSS} (pA @ V _{GS})	C _{iss} (pF)	e _n (nV/√Hz) @ 1 kHz	I _{BSS} G _{fs} Match %	G _{fs} (μmho) 125°C									
J401	10 200	5	10	10	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10	98	60		
J402	8-Pin	10 200	10	10	100	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10	98	60	
J403	Mini-	10 200	10	25	100	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10	98	60	
J404	DIP	10 200	15	25	100	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10	98	60	
J405	10 200	20	40	40	100	1000	1600	2	90	2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10	98	60	
J406	10 200	40	80	10	100	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	100	30	8	3	50	20	10	98	60	
J410	8-Pin	20 200	10	10	10	250	800	1200	5	0.3	0.3	0.5	3.5	0.5	6	1	4	20	250	20	4.5	1.2	40	50	100	83	60
J411	Mini	20 200	25	25	250	800	1200	5	0.3	0.3	0.5	3.5	0.5	6	1	4	20	250	20	4.5	1.2	40	50	100	83	60	
J412	DIP	20 200	40	80	250	800	1200	5	0.3	0.3	0.5	3.5	0.5	6	1	4	20	250	20	4.5	1.2	40	50	100	83	60	
NPDB301	8-Pin	20 200	5	15	100	700	1200	5	70	0.3	0.3	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100	83	67
NPDB302	Mini	20 200	10	110	100	700	1200	5	0.3	0.3	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100	83	67	
NPDB303	DIP	20 200	15	115	100	700	1200	5	0.3	0.3	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100	83	67	
NPDB304	8-Pin	20 200	20	120	100	700	1200	5	0.3	0.3	0.5	3.5	0.5	6	1	4	20	100	20	4.5	1.2	40	50	100	83	67	
U231	TO-71	20 200	5	10	50	600	10	0.3	4	See 2N3954 as an improved replacement										83	12						
U232	TO-71	20 200	10	25	50	600	10	0.3	4	See 2N3955 as an improved replacement										83	12						
U233	TO-71	20 200	15	50	50	600	10	0.3	4	See 2N3956 as an improved replacement										83	12						
U234	TO-71	20 200	20	75	50	600	10	0.3	4	See 2N3957 as an improved replacement										83	12						
U235	TO-71	20 200	25	100	50	600	10	0.3	4	See 2N3958 as an improved replacement										83	12						
U401	TO-71	10 200	5	10	15	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10	98	12	
U402	TO-71	10 200	10	10	15	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10	98	12	
U403	TO-71	10 200	10	25	15	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10	98	12	
U404	TO-71	10 200	15	25	15	1000	1600	2	95	2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10	98	12	
U405	TO-71	10 200	20	40	15	1000	1600	2	90	2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10	98	12	
U406	TO-71	10 200	40	80	15	1000	1600	2	90	2.3	0.5	2.5	0.5	10	2	7	20	25	30	8	3	50	20	10	98	12	

T-27-01

JFET Transistors



N-Channel JFETs

Low Frequency—Low Noise Dual JFETs

Type No.	Case Style	Operating Conditions for these Characteristics										I _{DSS} (mA)	G _{fs} (mmho)	G _{oss} (μmho)	V _p (V)	I _{DSS} (pA @ V _{DG})	C _{iss} (pF)	e _n (nV/√Hz @ 1 kHz)	I _{DSS} Match %	G _{fs} Match %	I _{g1} -I _{g2} (nA)	Process No.	Pkg. No.									
		Op. V _{DG} (V)	I _D (μA)	V _{GS} (mV)	Drift (μV/°C)	I _g (pA)	G _{fs} (μmhos)	CMRR (dB)	V _{GS} (V)	Min	Max													Min	Max	Min	Max	Min	Max	Min	Max	Min
2N5515	TO-71	20	200	5	5	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	3	0.1	10	95	12
2N5516	TO-71	20	200	5	10	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	3	0.1	10	95	12
2N5517	TO-71	20	200	10	20	100	500	1000	1	90	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	5	0.1	10	95	12
2N5518	TO-71	20	200	15	40	100	500	1000	1	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	5	5	0.1	10	95	12	
2N5519	TO-71	20	200	15	80	100	500	1000	1	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	30	10	10	10	0.1	10	95	12	
2N5520	TO-71	20	200	5	5	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	3	0.1	10	95	12
2N5521	TO-71	20	200	5	10	100	500	1000	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	3	0.1	10	95	12
2N5522	TO-71	20	200	10	20	100	500	1000	1	90	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	5	0.1	10	95	12
2N5523	TO-71	20	200	15	40	100	500	1000	1	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	5	5	0.1	10	95	12	
2N5524	TO-71	20	200	15	80	100	500	1000	1	0.2	3.8	0.7	4	0.5	7.5	1	4	10	250	30	25	5.0	40	15	10	10	10	0.1	10	95	12	
2N6483	TO-71	20	200	5	5	100	500	1500	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	200	30	20	3.5	50	10	10	5	3	0.1	10	95	12
2N6484	TO-71	20	200	10	10	100	500	1500	1	100	0.2	3.8	0.7	4	0.5	7.5	1	4	10	200	30	20	3.5	50	10	10	5	3	0.1	10	95	12
2N6485	TO-71	20	200	15	25	100	500	1500	1	90	0.2	3.8	0.7	4	0.5	7.5	1	4	10	200	30	20	3.5	50	10	10	5	3	0.1	10	95	12