

8514019 SPRAGUE, SEMICONDS/ICS

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T-29-25

SMALL-OUTLINE JUNCTION FIELD-EFFECT TRANSISTORS

N-Channel JFETs

ELECTRICAL CHARACTERISTICS at T_A = 25°C

Device Type	V _{DS}		I _{GSS}		V _{GS(ON)}				I _{DSS}			g _{fs}			C _{ISS} ¹		C _{RSS} ¹		r _{DS} Max. (Ω)	Process
	Min (V)	α I _G (μA)	Max. (nA)	α V _{GS} (V)	Limits		Conditions		Min. (mA)	Max. (mA)	α V _{DS} (V)	Min. (mS)	Max. (mS)	α V _{DS} (V)	Max. (pF)	α V _{DS} (V)	Max. (pF)	α V _{DS} (V)		
					Min. (V)	Max. (V)	V _{DS} (V)	I _D (nA)												
TMPF5951	-30	-1.0	-1.0	-15	-2.0	-5.0	15	100	7.0	13	15	3.0	—	15	6.0	15	2.0	15	—	NJ32
TMPF5952	-30	-1.0	-1.0	-15	-1.3	-3.5	15	100	4.0	8.0	15	1.0	—	15	6.0	15	2.0	15	—	NJ32
TMPF5953	-30	-1.0	-1.0	-15	-0.8	-3.0	15	100	2.5	5.0	15	1.0	—	15	6.0	15	2.0	15	—	NJ32
TMPF6451	-20	-1.0	-1.0	-10	-0.5	-3.5	10	1.0	5.0	20	10	—	—	—	25	10	5.0	10	—	NJ132L
TMPF6452	-25	-1.0	-1.0	-15	-0.5	-3.5	10	1.0	5.0	20	10	—	—	—	25	10	5.0	10	—	NJ132L
TMPF6453	-20	-1.0	-1.0	-10	-0.75	-5.0	10	1.0	15	50	10	—	—	—	25	10	5.0	10	—	NJ132L
TMPF6454	-25	-1.0	-1.0	-15	-0.75	-5.0	10	1.0	15	50	10	—	—	—	25	10	5.0	10	—	NJ132L
TMPFBC264A	-30	-1.0	-10	-20	-0.5	—	15	10	2.0	4.5	15	2.5	—	15	4.0	15	1.2	15	—	NJ26
TMPFBC264B	-30	-1.0	-10	-20	-0.5	—	15	10	3.5	6.5	15	3.0	—	15	4.0	15	1.2	15	—	NJ26
TMPFBC264C	-30	-1.0	-10	-20	-0.5	—	15	10	5.0	8.0	15	3.5	—	15	4.0	15	1.2	15	—	NJ26
TMPFBC264D	-30	-1.0	-10	-20	-0.5	—	15	10	7.0	12	15	4.0	—	15	4.0	15	1.2	15	—	NJ26
TMPFBF244A	-30	-1.0	-5.0	-20	-0.5	-8.0	15	10	2.0	6.5	15	3.0	6.5	15	—	—	—	—	—	NJ26
TMPFBF244B	-30	-1.0	-5.0	-20	-0.5	-8.0	15	10	6.0	15	15	3.0	6.5	15	—	—	—	—	—	NJ26
TMPFBF244C	-30	-1.0	-5.0	-20	-0.5	-8.0	15	10	12	25	15	3.0	6.5	15	—	—	—	—	—	NJ26
TMPFBF246A	-25	-1.0	-5.0	-15	-0.6	-14.5	15	10	30	80	15	—	—	—	—	—	—	—	65	NJ132
TMPFBF246B	-25	-1.0	-5.0	-15	-0.6	-14.5	15	10	60	140	15	—	—	—	—	—	—	—	50	NJ132
TMPFBF246C	-25	-1.0	-5.0	-15	-0.6	-14.5	15	10	110	250	15	—	—	—	—	—	—	—	35	NJ132
TMPFBF256A	-30	-1.0	-5.0	-20	-0.5	-7.5	15	10	3.0	7.0	15	4.5	—	15	4.5	15	1.2	15	—	NJ26
TMPFBF256B	-30	-1.0	-5.0	-20	-0.5	-7.5	15	10	6.0	13	15	4.5	—	15	4.5	15	1.2	15	—	NJ26
TMPFBF256C	-30	-1.0	-5.0	-20	-0.5	-7.5	15	10	11	18	15	4.5	—	15	4.5	15	1.2	15	—	NJ26
TMPFJ111	-35	-1.0	-1.0	-15	-3.0	-10	5.0	1.0	20	—	15	—	—	—	16	15	5	-10 ³	30	NJ132
TMPFJ111A	-40	-1.0	-0.2	-10	-5.0	-10	5.0	1.0	30	—	15	—	—	—	16	15	5	-10 ³	30	NJ132
TMPFJ112	-35	-1.0	-1.0	-15	-1.0	-5.0	5.0	1.0	5.0	—	15	—	—	—	16	15	5	-10 ³	50	NJ99
TMPFJ112A	-40	-1.0	-0.2	-10	-2.0	-7.0	5.0	1.0	15	—	15	—	—	—	16	15	5	-10 ³	50	NJ99
TMPFJ113	-35	-1.0	-1.0	-15	—	-3.0	5.0	1.0	2.0	—	15	—	—	—	16	15	5	-10 ³	100	NJ99
TMPFJ113A	-40	-1.0	-0.2	-10	-1.0	-5.0	5.0	1.0	8.0	—	15	—	—	—	16	15	5	-10 ³	80	NJ99
TMPFJ201	-40	-1.0	-1.0	-20	-0.3	-1.5	20	10	0.2	1.0	20	0.5	—	20	4.0	20	1.0	20	—	NJ16
TMPFJ202	-40	-1.0	-1.0	-20	-0.8	-4.0	20	10	0.9	4.5	20	1.0	—	20	4.0	20	1.0	20	—	NJ16
TMPFJ203	-40	-1.0	-1.0	-20	-2.0	-10	20	10	4.0	20	20	1.5	—	20	6.0	20	1.2	20	—	NJ32
TMPFJ210	-25	-1.0	-1.0	-15	-1.0	-3.0	15	1.0	2.0	15	15	4.0	12	15	—	—	—	—	—	NJ26L
TMPFJ211	-25	-1.0	-1.0	-15	-2.5	-4.5	15	1.0	7.0	20	15	6.0	12	15	—	—	—	—	—	NJ26L
TMPFJ212	-25	-1.0	-1.0	-15	-4.0	-6.0	15	1.0	15	40	15	7.0	12	15	—	—	—	—	—	NJ26L
TMPFJ230	-40	-1.0	-1.0	-30	-0.5	-3.0	20	1 ²	0.7	3.0	20	1.0	3.5	20	—	—	—	—	—	NJ16
TMPFJ231	-40	-1.0	-1.0	-30	-1.5	-5.0	20	1 ²	2.0	6.0	20	1.5	4.0	20	—	—	—	—	—	NJ16
TMPFJ232	-40	-1.0	-1.0	-30	-3.0	-6.0	20	1 ²	5.0	10	20	2.5	5.0	20	—	—	—	—	—	NJ16
TMPFJ300A	-25	-1.0	-1.0	-15	-1.5	-3.0	10	1.0	4.0	9.0	10	4.5	9.0	10 ⁵	5.5	10 ⁵	1.7	10 ⁵	—	NJ26L
TMPFJ300B	-25	-1.0	-1.0	-15	-2.0	-4.0	10	1.0	7.0	15	10	4.5	9.0	10 ⁵	5.5	10 ⁵	1.7	10 ⁵	—	NJ26L
TMPFJ300C	-25	-1.0	-1.0	-15	-2.5	-5.0	10	1.0	12	25	10	4.5	9.0	10 ⁵	5.5	10 ⁵	1.7	10 ⁵	—	NJ26L
TMPFJ304	-30	-1.0	-1.0	-20	-2.0	-6.0	15	1.0	5.0	15	15	4.5	7.5	15	—	—	—	—	—	NJ26
TMPFJ305	-30	-1.0	-1.0	-20	-0.5	-3.0	15	1.0	1.0	8.0	15	3.0	—	15	—	—	—	—	—	NJ26
TMPFJ308	-25	-1.0	-1.0	-15	-1.0	-6.5	10	1.0	12	60	10	8.0	—	10 ⁴	7.5	-10 ³	3.5	-10 ³	—	NJ99
TMPFJ309	-25	-1.0	-1.0	-15	-1.0	-4.0	10	1.0	12	30	10	10	—	10 ⁴	7.5	-10 ³	3.5	-10 ³	—	NJ99
TMPFJ310	-25	-1.0	-1.0	-15	-2.0	-6.5	10	1.0	24	60	10	8.0	—	10 ⁴	7.5	-10 ³	3.5	-10 ³	—	NJ99
TMPFU308	-25	-1.0	-1.0	-15	-1.0	-6.0	10	1.0	12	60	10	—	—	—	7.5	-10 ³	3.5	-10 ³	—	NJ99
TMPFU309	-25	-1.0	-1.0	-15	-1.0	-4.0	10	1.0	12	30	10	—	—	—	7.5	-10 ³	3.5	-10 ³	—	NJ99
TMPFU310	-25	-1.0	-1.0	-15	-2.5	-6.0	10	1.0	24	60	10	—	—	—	7.5	-10 ³	3.5	-10 ³	—	NJ99
TMPFU1897	-40	-1.0	-1.0	-20	-5.0	-10	20	1.0	30	—	20	—	—	—	16	20	3.5	20	30	NJ132
TMPFU1898	-40	-1.0	-1.0	-20	-2.0	-7.0	20	1.0	15	—	20	—	—	—	16	20	3.5	20	50	NJ132
TMPFU1899	-40	-1.0	-1.0	-20	-1.0	-5.0	20	1.0	8.0	—	20	—	—	—	16	20	3.5	20	80	NJ132

NOTES:
 1) V_{GS} = 0 V
 2) I_D in μA.
 3) V_{DS} = 0 V, V_{GS} in volts
 4) I_D = 10 mA
 5) I_D = 5.0 μA.