

8514019 SPRAGUE. SEMICONDS/ICS

93D 03610 D

T-29-25

SMALL-OUTLINE JUNCTION FIELD-EFFECT TRANSISTORS

N-Channel JFETs

ELECTRICAL CHARACTERISTICS at T_A = 25°C

Device Type	V _{(B)GSS}		I _{GSS}		V _{(DS)ON}				I _{DSS}			g _{fs}			C _{ISS} ¹		C _{RSS} ¹		r _{DS} Max. (Ω)	Process
	Min. (V)	@ I _C (μA)	Max (nA)	@ V _{GS} (V)	Limits		Conditions		Min. (mA)	Max. (mA)	@ V _{DS} (V)	Min. (mS)	Max. (mS)	@ V _{DS} (V)	Max. (pF)	@ V _{DS} (V)	Max. (pF)	@ V _{DS} (V)		
					Min. (V)	Max. (V)	V _{DS} (V)	I _D (nA)												
TMPF4858A	-40	-1.0	-1.0	-20	-0.8	-4.0	15	1.0	8.0	80	15	—	—	—	10	-10 ³	3.5	-10 ³	60	NJ132
TMPF4859	-30	-1.0	-1.0	-15	-4.0	-10	15	1.0	50	—	15	—	—	—	18	-10 ³	8.0	-10 ³	25	NJ132
TMPF4859A	-30	-1.0	-1.0	-15	-4.0	-10	15	1.0	50	—	15	—	—	—	10	-10 ³	4.0	-10 ³	25	NJ132
TMPF4860	-30	-1.0	-1.0	-15	-2.0	-6.0	15	1.0	20	100	15	—	—	—	18	-10 ³	8.0	-10 ³	40	NJ132
TMPF4860A	-30	-1.0	-1.0	-15	-2.0	-6.0	15	1.0	20	100	15	—	—	—	10	-10 ³	3.5	-10 ³	40	NJ132
TMPF4861	-30	-1.0	-1.0	-15	-0.8	-4.0	15	1.0	8.0	80	15	—	—	—	18	-10 ³	8.0	-10 ³	60	NJ132
TMPF4861A	-30	-1.0	-1.0	-15	-0.8	-4.0	15	1.0	8.0	80	15	—	—	—	10	-10 ³	3.5	-10 ³	60	NJ132
TMPF4867	-40	-1.0	-1.0	-30	-0.7	-2.0	20	1.0 ²	0.4	1.2	20	0.7	2.0	20	25	20	5.0	20	—	NJ16
TMPF4868	-40	-1.0	-1.0	-30	-1.0	-3.0	20	1.0 ²	1.0	3.0	20	1.0	3.0	20	25	20	5.0	20	—	NJ16
TMPF4869	-40	-1.0	-1.0	-30	-1.8	-5.0	20	1.0 ²	2.5	7.5	20	1.3	4.0	20	25	20	5.0	20	—	NJ16
TMPF5078	-30	-1.0	-1.0	-20	-0.5	-8.0	15	1.0	4.0	25	15	4.0	—	15	6.0	15	2.0	15	—	NJ26
TMPF5103	-25	-1.0	-1.0	-15	-0.5	-4.0	15	1.0	1.0	8.0	15	2.0	8.0	15	5.0	15	1.2	15	—	NJ26
TMPF5104	-25	-1.0	-1.0	-15	-0.5	-4.0	15	1.0	2.0	6.0	15	3.5	7.5	15	5.0	15	1.2	15	—	NJ26
TMPF5105	-25	-1.0	-1.0	-15	-0.5	-4.0	15	1.0	5.0	15	15	5.0	10	15	5.0	15	1.2	15	—	NJ26
TMPF5163	-25	-1.0	-1.0	-15	0.4	8.0	15	1.0 ²	1.0	4.0	15	2.0	9.0	15	12	15	3.0	15	—	NJ26
TMPF5245	-30	-1.0	-1.0	-20	-1.0	-6.0	15	1.0	5.0	15	15	4.0	—	15	4.5	15	1.5	15	—	NJ26
TMPF5246	-30	-1.0	-1.0	-20	-0.5	-4.0	15	1.0	1.5	7.0	15	2.5	—	15	4.5	15	1.5	15	—	NJ26
TMPF5247	-30	-1.0	-1.0	-20	-1.5	-8.0	15	1.0	8.0	24	15	4.0	—	15	4.5	15	1.5	15	—	NJ26
TMPF5248	-30	-1.0	-5.0	-20	-1.0	-8.0	15	1.0	4.0	20	15	3.0	—	15	6.0	15	2.0	15	—	NJ26
TMPF5358	-40	-1.0	-1.0	-20	-0.5	-3.0	15	100	0.5	1.0	15	1.0	3.0	15	6.0	15	2.0	15	—	NJ16
TMPF5359	-40	-1.0	-1.0	-20	-0.8	-4.0	15	100	0.6	1.6	15	1.2	3.6	15	6.0	15	2.0	15	—	NJ16
TMPF5360	-40	-1.0	-1.0	-20	-0.8	-4.0	15	100	1.5	3.0	15	1.4	4.2	15	6.0	15	2.0	15	—	NJ16
TMPF5361	-40	-1.0	-1.0	-20	-1.0	-6.0	15	100	2.5	5.0	15	1.5	4.5	15	6.0	15	2.0	15	—	NJ16
TMPF5362	-40	-1.0	-1.0	-20	-2.0	-7.0	15	100	4.0	8.0	15	2.0	5.5	15	6.0	15	2.0	15	—	NJ32
TMPF5363	-40	-1.0	-1.0	-20	-2.5	-8.0	15	100	7.0	14	15	2.5	6.0	15	6.0	15	2.0	15	—	NJ32
TMPF5364	-40	-1.0	-1.0	-20	-2.5	-8.0	15	100	9.0	18	15	2.7	6.5	15	6.0	15	2.0	15	—	NJ32
TMPF5397	-25	-1.0	1.0	-15	-1.0	-6.0	10	1.0	10	30	10	6.0	10	10 ⁴	5.0	10 ⁴	1.2	10 ⁴	—	NJ26L
TMPF5398	-25	-1.0	-1.0	-15	-1.0	-6.0	10	1.0	5.0	40	10	5.5	10	10	5.5	10	1.3	10	—	NJ26L
TMPF5457	-25	-1.0	-1.0	-15	-0.5	-6.0	15	10	1.0	5.0	15	1.0	5.0	15	7.0	15	3.0	15	—	NJ32
TMPF5458	-25	-1.0	-1.0	-15	-1.0	-7.0	15	10	2.0	9.0	15	1.5	5.5	15	7.0	15	3.0	15	—	NJ32
TMPF5459	-25	-1.0	-1.0	-15	-2.0	-8.0	15	10	4.0	16	15	2.0	6.0	15	7.0	15	3.0	15	—	NJ32
TMPF5484	-25	-1.0	-1.0	-20	-0.3	-3.0	15	10	1.0	5.0	15	3.0	6.0	15	5.0	15	1.0	15	—	NJ26
TMPF5485	-25	-1.0	-1.0	-20	-0.5	-4.0	15	10	4.0	10	15	3.5	7.0	15	5.0	15	1.0	15	—	NJ26
TMPF5486	-25	-1.0	-1.0	-20	-2.0	-6.0	15	10	8.0	20	15	4.0	8.0	15	5.0	15	1.2	15	—	NJ26
TMPF5555	-25	-1.0	-1.0	-15	—	-12	12	10	15	—	15	—	—	—	5.0	15	1.2	-10 ³	—	NJ26
TMPF5556	-30	-1.0	-1.0	-15	-0.2	-4.0	15	1.0	0.5	2.5	15	1.5	6.5	15	6.0	15	3.0	15	—	NJ16
TMPF5557	-30	-1.0	-1.0	-15	-0.8	-5.0	15	1.0	2.0	5.0	15	1.5	6.5	15	6.0	15	3.0	15	—	NJ16
TMPF5558	-30	-1.0	-1.0	-15	-1.5	-6.0	15	1.0	4.0	10	15	1.5	6.5	15	6.0	15	3.0	15	—	NJ16
TMPF5638	-30	-10	-1.0	-15	—	-12	15	1.0	50	—	20	—	—	—	10	-12 ³	4.0	-12 ³	30	NJ132
TMPF5639	-30	-10	-1.0	-15	—	-8.0	15	1.0	25	—	20	—	—	—	10	-12 ³	4.0	-12 ³	60	NJ99
TMPF5640	-30	-10	-1.0	-15	—	-6.0	15	1.0	5.0	—	20	—	—	—	10	-12 ³	4.0	-12 ³	100	NJ99
TMPF5653	-30	-10	-1.0	-15	—	-12	15	1.0	40	—	20	—	—	—	10	-12 ³	3.5	-12 ³	50	NJ99
TMPF5654	-25	-10	-1.0	-15	—	-8.0	15	1.0	15	—	20	—	—	—	10	-8.0 ³	3.5	-8.0 ³	100	NJ99
TMPF5668	-25	-10	-1.0	-15	-0.2	-4.0	15	10	1.0	5.0	15	1.0	—	15	7.0	15	3.0	15	—	NJ32
TMPF5669	-25	-10	-1.0	-15	-1.0	-6.0	15	10	4.0	10	15	1.6	—	15	7.0	15	3.0	15	—	NJ32
TMPF5670	-25	-10	-1.0	-15	-2.0	-8.0	15	10	8.0	20	15	2.0	—	15	7.0	15	3.0	15	—	NJ32
TMPF5949	-30	-1.0	-1.0	-15	-3.0	-7.0	15	100	12	18	15	3.0	—	15	6.0	15	2.0	15	—	NJ32
TMPF5950	-30	-1.0	-1.0	-15	-2.5	-6.0	15	100	10	15	15	3.0	—	15	6.0	15	2.0	15	—	NJ32

- NOTES:
 1) V_{GS} = 0 V
 2) I_D in μA
 3) V_{DS} = 0 V, V_{GS} in volts
 4) I_D = 10 μA
 5) I_D = 5.0 μA
 6) I_D = 1.0 mA
 7) I_D = 500 μA
 8) I_D = 200 μA