

SMALL-OUTLINE JUNCTION FIELD-EFFECT TRANSISTORS

N-Channel JFETs

ELECTRICAL CHARACTERISTICS at T_A = 25°C

Device Type	V _{(B)GSS}		I _{GSS}		V _{GS(ON)}				I _{LOSS}			θ _{JA}			C _{ISS} ¹		C _{RSS} ¹		r _{OS} Max. (Ω)	Process
					Limits		Conditions													
	Min. (V)	@ I _G (μA)	Max. (nA)	@ V _{GS} (V)	Min. (V)	Max. (V)	V _{DS} (V)	I _D (nA)	Min. (mA)	Max. (mA)	@ V _{DS} (V)	Min. (mS)	Max. (mS)	@ V _{DS} (V)	Max. (pF)	@ V _{DS} (V)	Max. (pF)	@ V _{DS} (V)		
TMPF3369	-40	-1.0	-1.0	-30	—	-6.5	20	1.0 ²	0.5	2.5	30	0.6	2.5	30	20	8.0	3.0	30	—	NJ16
TMPF3370	-40	-1.0	-1.0	-30	—	-3.2	20	1.0 ²	0.1	0.6	30	0.3	2.5	30	20	8.0	3.0	30	—	NJ16
TMPF3458	-50	-10	-1.0	-30	—	-7.8	20	1.0 ²	3.0	15	20	2.5	10	20	18	-10 ³	5.0	30	—	NJ32
TMPF3459	-50	-10	-1.0	-30	—	-3.4	20	1.0 ²	0.8	4.0	20	1.5	6.0	20	18	-8.0 ³	5.0	30	—	NJ16
TMPF3460	-50	-1.0	-1.0	-30	—	-1.8	20	1.0 ²	0.2	1.0	20	0.8	4.5	20	18	-4.0 ³	5.0	30	—	NJ16
TMPF3819	-25	-1.0	-2.0	-15	—	-8.0	15	2.0	2.0	20	15	2.0	6.5	15	8.0	15	4.0	15	—	NJ32
TMPF3821	-50	-1.0	-1.0	-30	—	-4.0	10	1.0	0.5	2.5	15	1.5	4.5	15	6.0	15	2.0	15	—	NJ16
TMPF3822	-50	-1.0	-1.0	-30	—	-6.0	10	1.0	2.0	10	15	3.0	6.5	15	6.0	15	2.0	15	—	NJ32
TMPF3823	-30	-1.0	-1.0	-20	—	-8.0	10	1.0	4.0	20	15	3.5	6.5	15	6.0	15	2.0	15	—	NJ32
TMPF3824	-50	-1.0	-1.0	-30	—	-8.0	15	0.5	4.0	20	15	3.5	6.5	15	6.0	15	2.0	15	250	NJ32
TMPF3966	-30	-1.0	-1.0	-20	-4.0	-6.0	10	10	2.0	—	20	—	—	—	6.0	20	1.5	-7.0 ³	220	NJ32
TMPF3967	-30	-1.0	-1.0	-20	-2.0	-5.0	20	1.0	2.5	10	20	2.5	—	20	5.0	20 ⁶	1.3	20 ⁶	—	NJ26
TMPF3967A	-30	-1.0	-1.0	-20	-2.0	-5.0	20	1.0	2.5	10	20	2.5	—	20	5.0	20 ⁶	1.3	20 ⁶	—	NJ26
TMPF3968	-30	-1.0	-1.0	-20	—	-3.0	20	1.0	1.0	5.0	20	2.0	—	20	5.0	20 ⁷	1.3	20 ⁷	—	NJ26
TMPF3968A	-30	-1.0	-1.0	-20	—	-3.0	20	1.0	1.0	5.0	20	2.0	—	20	5.0	20 ⁷	1.3	20 ⁷	—	NJ26
TMPF3969	-30	-1.0	-1.0	-20	—	-1.7	20	1.0	0.4	2.0	20	1.3	—	20	5.0	20 ⁸	1.3	20 ⁸	—	NJ16
TMPF3969A	-30	-1.0	-1.0	-20	—	-1.7	20	1.0	0.4	2.0	20	1.3	—	20	5.0	20 ⁸	1.3	20 ⁸	—	NJ16
TMPF3970	-40	-1.0	-1.0	-20	-4.0	-10	20	1.0	50	150	20	—	—	—	25	20	6.0	-12 ³	30	NJ132
TMPF3971	-40	-1.0	-1.0	-20	-2.0	-5.0	20	1.0	25	75	20	—	—	—	25	20	6.0	-12 ³	60	NJ132
TMPF3972	-40	-1.0	-1.0	-20	-0.5	-3.0	20	1.0	5.0	30	20	—	—	—	25	20	6.0	-12 ³	100	NJ132
TMPF4091	-40	-1.0	-1.0	-20	-5.0	-10	20	1.0	30	—	20	—	—	—	16	20	5.0	-20 ³	30	NJ132
TMPF4092	-40	-1.0	-1.0	-20	-2.0	-7.0	20	1.0	15	—	20	—	—	—	16	20	5.0	-20 ³	50	NJ132
TMPF4093	-40	-1.0	-1.0	-20	-1.0	-5.0	20	1.0	8.0	—	20	—	—	—	16	20	5.0	-20 ³	80	NJ132
TMPF4117	-40	-1.0	-0.01	-20	-0.6	-1.8	10	1.0	0.03	0.09	10	0.07	0.21	10	3.0	10	1.5	10	—	NJ01
TMPF4118	-40	-1.0	-0.01	-20	-1.0	-3.0	10	1.0	0.08	0.24	10	0.08	0.25	10	3.0	10	1.5	10	—	NJ01
TMPF4119	-40	-1.0	-0.01	-20	-2.0	-6.0	10	1.0	0.2	0.6	10	0.10	0.33	10	3.0	10	1.5	10	—	NJ01
TMPF4220	-30	-10	-1.0	-15	—	-4.0	15	1.0	0.5	3.0	15	1.0	4.0	15	6.0	15	2.0	15	—	NJ16
TMPF4221	-30	-10	-1.0	-15	—	-6.0	15	1.0	2.0	6.0	15	2.0	5.0	15	6.0	15	2.0	15	—	NJ32
TMPF4222	-30	-10	-1.0	-15	—	-8.0	15	1.0	5.0	15	15	2.5	6.0	15	6.0	15	2.0	15	—	NJ32
TMPF4223	-30	-10	-1.0	-20	—	-8.0	15	1.0	3.0	18	15	3.0	7.0	15	6.0	15	2.0	15	—	NJ32
TMPF4224	-30	-10	-1.0	-20	—	-8.0	15	1.0	2.0	20	15	2.0	7.5	15	6.0	15	2.0	15	—	NJ32
TMPF4302	-30	-1.0	-1.0	-15	—	-4.0	20	10	0.5	5.0	20	1.0	—	20	6.0	20	3.0	20	—	NJ26
TMPF4303	-30	-1.0	-1.0	-15	—	-6.0	20	10	4.0	10	20	2.0	—	20	6.0	20	3.0	20	—	NJ26
TMPF4304	-30	-1.0	-1.0	-15	—	-10	20	10	0.5	15	20	1.0	—	20	6.0	20	3.0	20	—	NJ26
TMPF4338	-50	-1.0	-1.0	-30	-0.3	-1.0	15	100	0.2	0.6	15	0.6	1.8	15	7.0	15	3.0	15	2500	NJ16
TMPF4339	-50	-1.0	-1.0	-30	-0.6	-1.8	15	100	0.5	1.5	15	0.8	2.4	15	7.0	15	3.0	15	1700	NJ16
TMPF4340	-50	-1.0	-1.0	-30	-1.0	-3.0	15	100	1.2	3.6	15	1.3	3.0	15	7.0	15	3.0	15	1500	NJ16
TMPF4341	-50	-1.0	-1.0	-30	-2.0	-6.0	15	100	3.0	9.0	15	2.0	4.0	15	7.0	15	3.0	15	800	NJ16
TMPF4391	-40	-1.0	-1.0	-20	-4.0	-10	20	1.0	50	150	20	—	—	—	16	20	5.0	-12 ³	30	NJ132
TMPF4392	-40	-1.0	-1.0	-20	-2.0	-5.0	20	1.0	25	100	20	—	—	—	16	20	5.0	-7.0 ³	60	NJ132
TMPF4393	-40	-1.0	-1.0	-20	-0.5	-3.0	20	1.0	5.0	30	20	—	—	—	16	20	5.0	-5.0 ³	100	NJ132
TMPF4416	-30	-1.0	-1.0	-20	—	-6.0	15	1.0	5.0	15	15	4.5	7.5	15	4.5	15	1.2	15	—	NJ26
TMPF4416A	-35	-1.0	-1.0	-20	-2.5	-6.0	15	1.0	5.0	15	15	4.5	7.5	15	4.5	15	1.2	15	—	NJ26
TMPF4856	-40	-1.0	-1.0	-20	-4.0	-10	15	1.0	50	—	15	—	—	—	18	-10 ³	8.0	-10 ³	25	NJ132
TMPF4856A	-40	-1.0	-1.0	-20	-4.0	-10	15	1.0	50	—	15	—	—	—	10	-10 ³	4.0	-10 ³	25	NJ132
TMPF4857	-40	-1.0	-1.0	-20	-2.0	-6.0	15	1.0	20	100	15	—	—	—	18	-10 ³	8.0	-10 ³	40	NJ132
TMPF4857A	-40	-1.0	-1.0	-20	-2.0	-6.0	15	1.0	20	100	15	—	—	—	10	-10 ³	3.5	-10 ³	40	NJ132
TMPF4858	-40	-1.0	-1.0	-20	-0.8	-4.0	15	1.0	8.0	80	15	—	—	—	18	-10 ³	8.0	-10 ³	60	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 μA.
 5) I_D = 50 μA.
 6) I_D = 1.0 mA.
 7) I_D = 500 μA.
 8) I_D = 200 μA.