

8514019 SPRAGUE, SEMICONDUCTORS/ICS

93D 03601 D

T-29-25

PLASTIC-CASE JUNCTION FIELD-EFFECT TRANSISTORS

N-Channel JFETs

ELECTRICAL CHARACTERISTICS at $T_A = 25^\circ\text{C}$

Device Type	V _{(BR)SS}		I _{SS}		V _{GS(off)}				I _{DSS}			g _{fs}			C _{iss} ¹		C _{rss} ¹		r _{DS} 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)		
TP4858A	-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
TP4859	-30	-1.0	-1.0	-15	-4.0	-10	15	1.0	50	—	15	—	—	—	18	-10 ³	8.0	-10 ³	25	NJ132
TP4859A	-30	-1.0	-1.0	-15	-4.0	-10	15	1.0	50	—	15	—	—	—	10	-10 ³	4.0	-10 ³	25	NJ132
TP4860	-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
TP4860A	-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
TP4861	-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
TP4861A	-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
TP4867	-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
TP4868	-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
TP4869	-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
TP5078	-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
TP5103	-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
TP5104	-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
TP5105	-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
TP5163	-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
TP5245	-30	-1.0	-1.0	-20	-1.0	-6.0	15	10	5.0	15	15	4.0	—	15	4.5	15	1.5	15	—	NJ26
TP5246	-30	-1.0	-1.0	-20	-0.5	-4.0	15	10	1.5	7.0	15	2.5	—	15	4.5	15	1.5	15	—	NJ26
TP5247	-30	-1.0	-1.0	-20	-1.5	-8.0	15	10	8.0	24	15	4.0	—	15	4.5	15	1.5	15	—	NJ26
TP5248	-30	-1.0	-1.0	-20	-1.0	-8.0	15	10	4.0	20	15	3.0	—	15	6.0	15	2.0	15	—	NJ26
TP5358	-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
TP5359	-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
TP5360	-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
TP5361	-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
TP5362	-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
TP5363	-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
TP5364	-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
TP5397	-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
TP5398	-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
2N5457	-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
2N5458	-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
2N5459	-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
2N5484	-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	1.2	15	—	NJ26
2N5485	-25	-1.0	-1.0	-20	-0.5	-4.0	15	10	4.0	10	15	3.5	7.0	15	5.0	15	1.2	15	—	NJ26
2N5486	-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
2N5555	-25	-1.0	-1.0	-15	—	-12	12	10	15	—	15	—	—	—	5.0	15	1.2	10 ³	150	NJ26
TP5556	-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
TP5557	-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
TP5558	-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
2N5638	-30	-1.0	-1.0	-15	—	-12	15	1.0	50	—	20	—	—	—	10	-12 ³	4.0	-12 ³	30	NJ132
2N5639	-30	-1.0	-1.0	-15	—	-8.0	15	1.0	25	—	20	—	—	—	10	-12 ³	4.0	-12 ³	60	NJ99
2N5640	-30	-1.0	-1.0	-15	—	-6.0	15	1.0	5.0	—	20	—	—	—	10	-12 ³	4.0	-12 ³	100	NJ99
2N5653	-30	-1.0	-1.0	-15	—	-12	15	1.0	40	—	20	—	—	—	10	-12 ³	3.5	-12 ³	50	NJ99
2N5654	-25	-1.0	-1.0	-15	—	-8.0	15	1.0	15	—	20	—	—	—	10	-8.0 ³	3.5	-8.0 ³	100	NJ99
TP5668	-25	-1.0	-1.0	-15	-0.2	-4.0	15	1.0	1.0	5.0	15	1.0	—	15	7.0	15	3.0	15	—	NJ16
TP5669	-25	-1.0	-1.0	-15	-1.0	-6.0	15	10	4.0	10	15	1.6	—	15	7.0	15	3.0	15	—	NJ32
TP5670	-25	-1.0	-1.0	-15	-2.0	-8.0	15	10	8.0	20	15	2.0	—	15	7.0	15	3.0	15	—	NJ32
TP5949	-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
TP5950	-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:

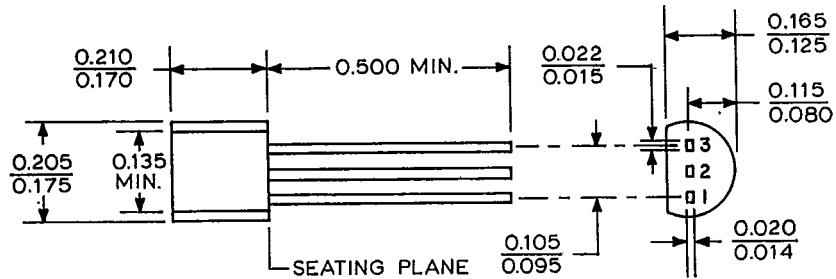
- 1) $V_{GS} = 0$ V.
- 2) I_D in μA .
- 3) $V_{DS} = 0$ V, V_{GS} in volts.
- 4) $I_D = 10$ mA.
- 5) $I_D = 5.0$ mA.
- 6) $I_D = 1.0$ mA.
- 7) $I_D = 500$ μA .
- 8) $I_D = 200$ μA .

T-91-20

PACKAGE INFORMATION

TO-226AA/STYLES CG AND CO

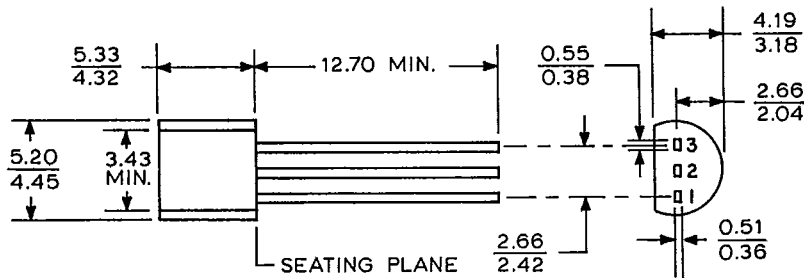
DIMENSIONS IN INCHES



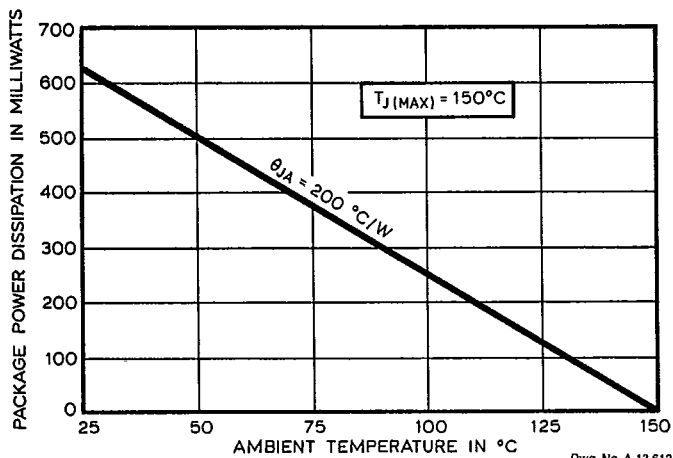
Dwg No A-13.610

DIMENSIONS IN MILLIMETERS

Based on 1" = 25.4 mm



Dwg. No. A-13.611

MAXIMUM ALLOWABLE PACKAGE POWER DISSIPATION
AS A FUNCTION OF AMBIENT TEMPERATURE

Dwg No A-13.612



CG PINOUT

Pin	Terminal
1	Drain
2	Source
3	Gate

CO PINOUT

Pin	Terminal
1	Source
2	Drain
3	Gate