

N-Channel Junction Field Effect Transistors

GENERAL PURPOSE

TYPE NO.	CASE	MAXIMUM RATINGS		IDSS (mA)		Yfs (mmhos)		VGS(off) (V)		Ciss (pF)	Crss (pF)	NF (dB)
		Pd (mW)	BVGSS (V)									
BC 264A	TO-92DE	300	30	2	4.5	2.5	—	0.5	8	4+	1.2+	2
BC 264B	TO-92DE	300	30	3.5	6.5	3	—	0.5	8	4+	1.2+	2
BC 264C	TO-92DE	300	30	5	8	3.5	—	0.5	8	4+	1.2+	2
BC 264D	TO-92DE	300	30	7	12	4	—	0.5	8	4+	1.2+	2
BF 246A	TO-92DA	250	25	30	80	8	17	0.6	14.5	11+	3.5+	—
BF 246B	TO-92DA	250	25	60	140	8	17	0.6	14.5	11+	3.5+	—
BF 246C	TO-92DA	250	25	110	250	8	17	0.6	14.5	11+	3.5+	—
BF 247A	TO-92DE	250	25	30	80	8	17	0.6	14.5	11+	3.5+	—
BF 247B	TO-92DE	250	25	60	140	8	17	0.6	14.5	11+	3.5+	—
BF 247C	TO-92DE	250	25	110	250	8	17	0.6	14.5	11+	3.5+	—
2N 3684	TO-72	300	50	2.5	7.5	2	3	2	5	4	1.2	0.5
2N 3684A	TO-72	300	50	2.5	7.5	—	—	2	5	4	1.2	0.5
2N 3685	TO-72	300	50	1	3	1.5	2.5	1	3.5	4	1.2	0.5
2N 3685A	TO-72	300	50	1	3	—	—	1	3.5	4	1.2	0.5
2N 3686	TO-72	300	50	0.4	1.2	1	2	0.6	2	4	1.2	0.5
2N 3686A	TO-72	300	50	0.4	1.2	—	—	0.6	2	4	1.2	0.5
2N 3687	TO-72	300	50	0.1	0.5	0.5	1.5	0.3	1.2	4	1.2	0.5
2N 3687A	TO-72	300	50	0.1	0.5	—	—	0.3	1.2	4	1.2	0.5
2N 3967	TO-72	300	30	2.5	10	2.5	—	2	5	5	1.3	1.5
2N 3967A	TO-72	300	30	2.5	10	2.5	—	2	5	5	1.3	1.5
2N 3968	TO-72	300	30	1	5	2	—	—	3	5	1.3	1.5
2N 3968A	TO-72	300	30	1	5	2	—	—	3	5	1.3	1.5
2N 3969	TO-72	300	30	0.4	2	1.3	—	—	1.7	5	1.3	1.5
2N 3969A	TO-72	300	30	0.4	2	1.3	—	—	1.7	5	1.3	1.5
2N 4220	TO-72DI	300	30	0.5	3	1	4	—	4	6	2	2.5
2N 4221	TO-72DI	300	30	2	6	2	5	—	6	6	2	2.5
2N 4222	TO-72DI	300	30	5	15	2.5	6	—	8	6	2	2.5
2N 4302	TO-106	300	30	0.5	5	1	—	—	4	6	3	2.5
2N 4303	TO-106	300	30	4	10	2	—	—	6	6	3	2.5
2N 4304	TO-106	300	30	0.5	15	1	—	—	10	6	3	2.5
2N 4338	TO-18	300	50	0.2	0.6	0.6	1.8	0.3	1	7	3	1
2N 4339	TO-18	300	50	0.5	1.5	0.8	2.4	0.6	1.8	7	3	1
2N 4340	TO-18	300	50	1.2	3.6	1.3	3	1	3	7	3	1
2N 4341	TO-18	300	50	3	9	2	4	2	6	7	3	1
2N 5103	TO-72	300	25	1	8	2	8	0.5	4	5	1	—
2N 5104	TO-72	300	25	2	6	3.5	7.5	0.5	4	5	1	—
2N 5163	TO-106	200	25	1	40	2	9	0.4	8	12	3	—
2N 5457	TO-92DD	310	25	1	5	1	5	0.5	6	7	3	—
2N 5458	TO-92DD	310	25	2	9	1.5	5.5	1	7	7	3	—
2N 5459	TO-92DD	310	25	4	16	2	6	2	8	7	3	—
2N 5556	TO-72	300	30	0.5	2.5	1.5	6.5	0.2	4	6	3	1
2N 5557	TO-72	300	30	2	5	1.5	6.5	0.8	5	6	3	1
2N 5558	TO-72	300	30	4	10	1.5	6.5	1.5	6	6	3	1
2N 5716	TO-92DD	350	40	0.05	0.25	0.2	1	0.2	3	5	1.5	—
2N 5717	TO-92DD	350	40	0.2	1	0.4	1.6	0.5	5	5	1.5	—
2N 5718	TO-92DD	350	40	0.8	4	0.5	2	1	8	5	1.5	—
2SK 30A-R	TO-92DA	100	50	0.3	0.75	1.2	—	0.4	5	8.2+	2.6+	5
2SK 30A-O	TO-92DA	100	50	0.6	1.4	1.2	—	0.4	5	8.2+	2.6+	5
2SK 30A-Y	TO-92DA	100	50	1.2	3	1.2	—	0.4	5	8.2+	2.6+	5
2SK 30A-GR	TO-92DA	100	50	2.6	6.5	1.2	—	0.4	5	8.2+	2.6+	5
2SK 34	TO-92DA	150	30	0.3	12#	1	—	0.3	6	8+	1.5+	6
2SK 50	TO-92DA	20	10	0.07	1#	—	—	—	—	—	—	—
2SK 66	TO-92DA	100	55	0.3	6.5#	—	—	—	—	8.2+	2.6+	5

N-Channel Junction Field Effect Transistors

VHF/UHF AMPLIFIER

TYPE NO.	CASE	MAXIMUM RATINGS		I _{DSS} (mA) min max		Y _{fs} (mmhos) min max		V _{GS(off)} (V) min max		C _{iss} (pF) max	C _{rss} (pF) max	NF (dB) max
		P _d (mW)	BV _{GSS} (V)									
BF 244A	TO-92DA	300	30	2	6.5	3	6.5	0.5	8	4	1.6	1.5+
BF 244B	TO-92DA	300	30	6	15	3	6.5	0.5	8	4	1.6	1.5+
BF 244C	TO-92DA	300	30	12	25	3	6.5	0.5	8	4	1.6	1.5+
BF 245A	TO-92DE	300	30	2	6.5	3	6.5	0.5	8	4	1.6	1.5+
BF 245B	TO-92DE	300	30	6	15	3	6.5	0.5	8	4	1.6	1.5+
BF 245C	TO-92DE	300	30	12	25	3	6.5	0.5	8	4	1.6	1.5+
BF 256A	TO-92DE	360	30	3	7	4.5	—	0.5	7.5	4.5	1.2	7.5+
BF 256B	TO-92DE	360	30	6	13	4.5	—	0.5	7.5	4.5	1.2	7.5+
BF 256C	TO-92DE	360	30	11	18	4.5	—	0.5	7.5	4.5	1.2	7.5+
2N 3819	TO-92DA	300	25	2	20	2	6.5	—	8	8	4	—
2N 3823	TO-72DG	300	30	4	20	3.5	6.5	—	8	6	2	2.5
2N 4223	TO-72DI	300	30	3	18	3	7	—	8	6	2	5
2N 4224	TO-72DI	300	30	2	20	2	7.5	—	8	0.8	2	—
2N 4416	TO-72DG	300	30	5	15	4.5	7.5	—	6	4	0.8	4
2N 4416A	TO-72DG	300	35	5	15	4.5	7.5	2.5	6	4	0.8	4
2N 5245	TO-92DE	360	30	5	15	4.5	7.5	1	6	4.5	1	2
2N 5246	TO-92DE	360	30	1.5	7	3	6	0.5	4	4.5	1	2
2N 5247	TO-92DE	360	30	8	24	4.5	8	1.5	8	4.5	1	2
2N 5248	TO-92DA	360	30	4	20	3.5	6.5	1	8	6	2	—
2N 5484	TO-92DD	310	25	1	5	3	6	0.3	3	5	1	3
2N 5485	TO-92DD	310	25	4	10	3.5	7	0.5	4	5	1	2
2N 5486	TO-92DD	310	25	8	20	4	8	2	6	5	1	2
2N 5668	TO-92DD	310	25	1	5	1.5	6.5	0.2	4	7	3	2.5
2N 5669	TO-92DD	310	25	4	10	2	6.5	1	6	7	3	2.5
2N 5670	TO-92DD	310	25	8	20	3	7.5	2	8	7	3	2.5
2SK 19-Y	TO-92DD	200	18	3	7	7+	—	1.2	—	—	0.65	3.5
2SK 19-GR	TO-92DD	200	18	6	14	7+	—	1.2	—	—	0.65	3.5
2SK 19-BL	TO-92DD	200	18	12	24	7+	—	1.2	—	—	0.65	3.5
2SK 33	TO-92DD	150	20	2.5	20#	4.5	—	1	8	—	0.5+	2.5+
2SK 41	TO-92DD	100	18	0.6	24#	7+	—	0.6	5#	—	0.75	3.5
2SK 56	TO-92DE	100	10	0.5	6#	1.9	—	—	2.5	4+	1.5	4.5
2SK 83	TO-92DE	100	25	0.5	12#	1.9	—	—	2.5	4+	0.15	3.5

#Groupings available +Typical value

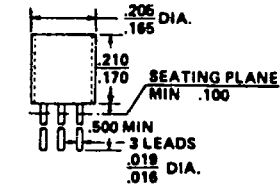
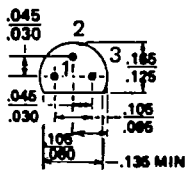
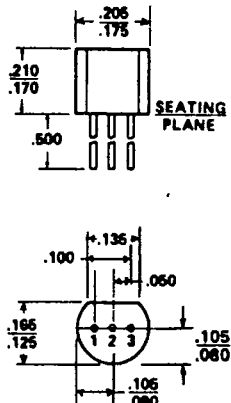
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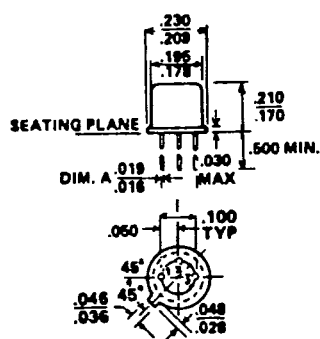
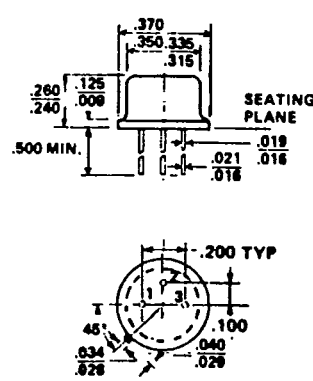
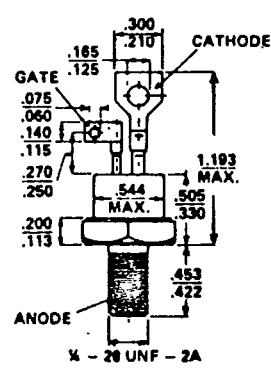
SWITCHING/CHOPPER

TYPE NO.	CASE	MAXIMUM RATINGS		I _{DSS} (mA) min max		V _{GS(off)} (V) min max		r _{ds(on)} (ohms) max	C _{iss} (pF) max	C _{rss} (pF) max	t _{on} (ns) max	t _{off} (ns) max
		P _d (mW)	BV _{GSS} (V)									
2N 3966	TO-72	300	30	2	—	4	6	220	6	1.5	120	100
2N 3970	TO-18	1800▲	40	50	150	4	10	30	25	6	20	30
2N 3971	TO-18	1800▲	40	25	75	2	5	60	25	6	30	60
2N 3972	TO-18	1800▲	40	5	30	0.5	3	100	25	6	80	100
2N 4091	TO-18	1800▲	40	30	—	5	10	30	16	5	25	40
2N 4092	TO-18	1800▲	40	15	—	2	7	50	16	5	35	60
2N 4093	TO-18	1800▲	40	8	—	1	5	80	16	5	60	80
2N 4391	TO-18	1800▲	40	50	150	4	10	30	14	3.5	15	20
2N 4392	TO-18	1800▲	40	25	75	2	5	60	14	3.5	15	35
2N 4393	TO-18	1800▲	40	5	30	0.5	3	100	14	3.5	15	50
2N 4856	TO-18	360	40	50	—	4	10	25	18	8	9	25
2N 4856A	TO-18	360	40	50	—	4	10	25	10	4	8	20
2N 4857	TO-18	360	40	20	100	2	6	40	18	8	10	50
2N 4857A	TO-18	360	40	20	100	2	6	40	10	3.5	10	40
2N 4858	TO-18	360	40	8	80	0.8	4	60	18	8	20	100
2N 4858A	TO-18	360	40	8	80	0.8	4	60	10	3.5	16	80
2N 4859	TO-18	360	30	50	—	4	10	25	18	8	9	25
2N 4859A	TO-18	360	30	50	—	4	10	25	10	4	8	20
2N 4860	TO-18	360	30	20	100	2	6	40	18	8	10	50
2N 4860A	TO-18	360	30	20	100	2	6	40	10	3.5	10	40
2N 4861	TO-18	360	30	8	80	0.8	4	60	18	8	20	100
2N 4861A	TO-18	360	30	8	80	0.8	4	60	10	3.5	16	80
2N 5555	TO-92DD	310	25	15	—	—	—	150	5	1.2	5	15
2N 5638	TO-92DD	310	30	50	—	—	—	30	10	4	9	15
2N 5639	TO-92DD	310	30	25	—	—	—	60	10	4	14	30
2N 5640	TO-92DD	310	30	5	—	—	—	100	10	4	18	45
2N 5653	TO-92DD	310	30	40	—	—	—	50	10	3.5	9	15
2N 5654	TO-92DD	310	30	15	—	—	—	100	10	3.5	14	30

▲ at T_C = 25°C + Typical value

Packaging Information

PACKAGING INFORMATION	1. CATHODE 2. GATE 3. ANODE	SCR 1. CATHODE 2. GATE 3. ANODE	TRIAC 1. MT 1 2. GATE 3. MT 2
	 		
	TO-18 (PLASTIC)	TO-92	

1. CATHODE 2. GATE 3. ANODE	SCR 1. CATHODE 2. GATE 3. ANODE	TRIAC 1. MT 1 2. GATE 3. MT 2
		
TO-18	TO-39	TO-48D