

| TYPE | MATERIAL | POLARITY | REPLACE- MENT | PAGE NUMBER | USE | MAXIMUM RATINGS | | | | | ELECTRICAL CHARACTERISTICS | | | | | | | | | | |
|--------|---|----------|------------------|----------------|------|--------------------------|----------------------|----------------------------|------------------------------|-----------|----------------------------------|-------|---------------------------------------|-------|-----------------|-----------|----------------|-----------|-------|-------|---|
| | | | | | | P _D @ 25°C | T _J °C | V _{CB} (volts) | V _{CE} - (volts) | Subscript | h _{FE} @ I _C | | V _{CE(SAT)} @ I _C | | h _{FE} | Subscript | f _T | Subscript | | | |
| | | | | | | | | | | | (min) | (max) | Units | Units | | | | | Units | Units | |
| 2N4228 | S | P | 2N4402 | 5-34 | RFA | 300M | A | 125 | 60 | 40 | 0 | | 150 | 150M | | | | 200M | T | | |
| 2N4231 | S | N | | | LPA | 35W | C | 200 | 40 | 40 | 0 | 25 | 100 | 1.5A | 0.7 | 1.5A | | 1.0M | T | | |
| 2N4232 | S | N | | | LPA | 35W | C | 200 | 60 | 60 | 0 | 25 | 100 | 1.5A | 0.7 | 1.5A | | 1.0M | T | | |
| 2N4233 | S | N | | | LPA | 35W | C | 200 | 80 | 80 | 0 | 25 | 100 | 1.5A | 0.7 | 1.5A | | 1.0M | T | | |
| 2N4234 | S | P | | 7-156 | PMS | 1.0W | A | 200 | 40 | 40 | 0 | 30 | 150 | 250M | 0.6 | 1.0A | | 3.0M | T | | |
| 2N4235 | S | P | | 7-156 | PMS | 1.0W | A | 200 | 60 | 60 | 0 | 30 | 150 | 250M | 0.6 | 1.0A | | 3.0M | T | | |
| 2N4236 | S | P | | 7-156 | PMS | 1.0W | A | 200 | 80 | 80 | 0 | 30 | 150 | 250M | 0.6 | 1.0A | | 3.0M | T | | |
| 2N4237 | S | P | | 7-161 | LPA | 5.0W | C | 175 | 50 | 40 | 0 | 40 | 160 | 500M | 2.5 | 1.0A | 40 | 10M | T | | |
| 2N4238 | S | P | | 7-161 | LPA | 5.0W | C | 175 | 80 | 60 | 0 | 40 | 160 | 500M | 2.5 | 1.0A | 40 | 10M | T | | |
| 2N4239 | S | N | | 7-161 | LPA | 5.0W | C | 175 | 100 | 60 | 0 | 40 | 160 | 500M | 2.5 | 1.0A | 40 | 10M | T | | |
| 2N4240 | S | N | | | LPA | 35W | C | 440 | 300 | 30 | 0 | 30 | 240 | 0.75A | | | | 15M | T | | |
| 2N4242 | G | P | | | LPA | 105W | A | 80 | 60 | 0 | 0 | 40 | 80 | 5.0A | | | | 500K | T | | |
| 2N4243 | G | P | | | LPA | 105W | A | 60 | 45 | 0 | 0 | 40 | 80 | 5.0A | | | | 500K | T | | |
| 2N4244 | G | P | | | LPA | 105W | A | 40 | 30 | 0 | 0 | 40 | 80 | 5.0A | | | | 500K | T | | |
| 2N4245 | G | P | | | LPA | 105W | A | 80 | 60 | 0 | 0 | 60 | 120 | 5.0A | | | | 500K | T | | |
| 2N4246 | G | P | | | LPA | 105W | A | 60 | 45 | 0 | 0 | 60 | 120 | 5.0A | | | | 500K | T | | |
| 2N4247 | G | P | | | LPA | 105W | A | 40 | 30 | 0 | 0 | 60 | 120 | 5.0A | | | | 500K | T | | |
| 2N4248 | S | P | 2N5086 | 5-55 | AFA | 200M | A | 125 | 40 | 40 | 0 | | | | | | 50 | E | 40M | T | |
| 2N4249 | S | P | 2N5086 | 5-55 | AFA | 200M | A | 125 | 60 | 60 | 0 | | | | | | 100 | E | 40M | T | |
| 2N4250 | S | P | 2N5087 | 5-55 | AFA | 200M | A | 125 | 40 | 40 | 0 | | | | | | 250 | E | 40M | T | |
| 2N4251 | S | N | | | MSA | 250M | A | 200 | 15 | 10 | 0 | 100 | | 10M | | | | | 1300M | T | |
| 2N4252 | S | N | | | RFA | 200M | A | 175 | 30 | 18 | 0 | 50 | | 2.0M | | | | | 600M | T | |
| 2N4253 | S | N | | | RFA | 200M | A | 175 | 30 | 18 | 0 | 50 | | 2.0M | | | | | 600M | T | |
| 2N4254 | S | N | MPS6547 | 5-135 | AFA | 200M | A | 175 | 30 | 18 | 0 | 50 | | 2.0M | | | | | 600M | T | |
| 2N4255 | S | N | MPS6547 | 5-135 | AFA | 200M | A | 175 | 30 | 18 | 0 | 30 | | 2.0M | | | | | | | |
| 2N4256 | S | N | 2N3904 | 5-11 | AFA | 200M | A | 30 | 30 | 30 | 0 | 30 | 500 | 2.0M | | | | | | | |
| 2N4257 | S | P | | | HSS | 200M | A | 125 | 6.0 | 6.0 | 0 | 30 | 120 | 10M | | | | | | 500M | T |
| 2N4258 | S | P | | | HSS | 200M | A | 125 | 12 | 12 | 0 | 30 | 120 | 10M | | | | | | 700M | T |
| 2N4259 | S | N | | | RFA | 175M | A | 175 | 40 | 30 | 0 | | | | | | 70 | E | | | |
| 2N4260 | S | P | 8-298 | | HNS | 200M | A | 200 | 15 | 15 | 0 | 30 | 150 | 10M | 15 | 10M | 16 | E | 1500M | T | |
| 2N4261 | S | P | 8-298 | | HNS | 200M | A | 200 | 5.0 | 15 | 0 | 30 | 150 | 15A | 15 | 10M | 20 | E | 2000M | T | |
| 2N4262 | S | N | | | LPA | 1.5W | C | 25 | 1.0 | 0 | 0 | 75 | 0.3A | | | | | | | 600M | T |
| 2N4263 | S | N | | | LPA | 1.5W | C | 25 | 1.0 | 0 | 0 | 75 | 0.3A | | | | | | | 800M | T |
| 2N4264 | S | N | | 5-29 | MSA | 310M | A | 135 | 30 | 15 | 0 | 40 | 160 | 10M | | | | | | 300M | T |
| 2N4265 | S | N | | 5-29 | HSS | 310M | A | 135 | 30 | 12 | 0 | 100 | 400 | 15A | 0.22 | 10M | | | | 300M | T |
| 2N4267 | | | | | | | | | | | | | | | | | | | | | |
| thru | Field Effect Transistors, see Table on Page 1-166 | | | | | | | | | | | | | | | | | | | | |
| 2N4268 | S | N | | | AFC | 360M | A | 200 | 200 | 140 | 0 | | 200 | 10M | | | | | | | |
| 2N4269 | S | N | | | AFC | 580M | A | 200 | 200 | 140 | 0 | | 200 | 10M | | | | | | | |
| 2N4270 | S | N | | | LPA | 5.0W | C | | 175 | 140 | 0 | 20 | 140 | 0.2A | | | | | | 20M | T |
| 2N4271 | S | N | | | LPA | 5.0W | C | | 175 | 140 | 0 | 20 | 140 | 1.0A | | | | | | 10M | T |
| 2N4272 | S | N | | | LPA | 5.0W | C | | 175 | 140 | 0 | 20 | 140 | 1.0A | | | | | | 10M | T |
| 2N4273 | S | N | | | LPA | 25W | C | | 175 | 140 | 0 | 20 | 140 | 1.0A | | | | | | 10M | T |
| 2N4274 | S | N | | | HSS | 280M | A | 125 | 30 | 12 | 0 | 18 | | 100M | | | | | | 400M | T |
| 2N4275 | S | N | | | HSS | 280M | A | 125 | 40 | 15 | 0 | 18 | | 100M | | | | | | 400M | T |
| 2N4276 | G | P | | 7-163 | LPA | 170W | C | 110 | 30 | 20 | 0 | 60 | 120 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4277 | G | P | | 7-163 | LPA | 170W | C | 110 | 30 | 20 | 0 | 80 | 180 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4278 | G | P | | 7-163 | LPA | 170W | C | 110 | 45 | 30 | 0 | 60 | 120 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4279 | G | P | | 7-163 | LPA | 170W | C | 110 | 45 | 30 | 0 | 80 | 180 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4280 | G | P | | 7-163 | LPA | 170W | C | 110 | 60 | 45 | 0 | 60 | 120 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4281 | G | P | | 7-163 | LPA | 170W | C | 110 | 60 | 45 | 0 | 80 | 180 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4282 | G | P | | 7-163 | LPA | 170W | C | 110 | 75 | 60 | 0 | 60 | 120 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4283 | G | P | | 7-163 | LPA | 170W | C | 110 | 75 | 60 | 0 | 80 | 180 | 15A | 0.15 | 15A | | | | 2.0K | E |
| 2N4284 | S | P | | | 250M | A | 165 | 25 | 25 | 0 | | 600 | 1.0M | | | | | | | | |
| 2N4285 | S | P | | | 250M | A | 165 | 35 | 35 | 0 | | 600 | 1.0M | | | | | | | | |
| 2N4286 | S | N | MPS6515 | 5-109 | AFA | 250M | A | 150 | 30 | 25 | 0 | | | | | | 600 | E | | 40M | T |
| 2N4287 | S | N | MPS6566 | 5-148 | AFA | 250M | A | 150 | 45 | 45 | 0 | | | | | | 600 | E | | 40M | T |
| 2N4288 | S | P | MPS6518 | 5-113 | AFA | 250M | A | 150 | 30 | 25 | 0 | | | | | | 600 | E | | 40M | T |
| 2N4289 | S | P | 2N5086 | 5-55 | AFA | 250M | A | 150 | 60 | 45 | 0 | | | | | | 600 | E | | 40M | T |
| 2N4290 | S | P | MPS6533 | 5-118 | AFA | 250M | A | 150 | 30 | 20 | 0 | | | | | | 600 | E | | 40M | T |
| 2N4291 | S | P | MPS6534 | 5-118 | AFA | 250M | A | 150 | 40 | 30 | 0 | | | | | | 600 | E | | 40M | T |
| 2N4292 | S | N | MPS918 | 5-74 | AFA | 200M | A | 150 | 30 | 15 | 0 | 20 | | 3.0M | | | | | | 600M | T |
| 2N4293 | S | N | MPS918 | 5-74 | AFA | 200M | A | 150 | 30 | 15 | 0 | | | | | | 60 | E | | 600M | T |
| 2N4294 | S | N | 2N4264 | 5-29 | HSS | 200M | A | 150 | 30 | 12 | 0 | 30 | 120 | 10M | | | | | | 400M | T |
| 2N4295 | S | N | 2N4264 | 5-29 | HSS | 200M | A | 150 | 40 | 15 | 0 | 40 | 120 | 10M | | | | | | 500M | T |
| 2N4296 | S | N | | | LPA | 20W | C | | 350 | 250 | 0 | 50 | 150 | 0.05A | | | | | | 20M | T |
| 2N4297 | S | N | | | LPA | 20W | C | | 350 | 250 | 0 | 75 | 300 | 0.05A | | | | | | 20M | T |
| 2N4298 | S | N | | | LPA | 20W | C | | 500 | 350 | 0 | 25 | 75 | 0.05A | | | | | | 20M | T |
| 2N4299 | S | N | | | LPA | 20W | C | | 500 | 350 | 0 | 50 | 150 | 0.05A | | | | | | 20M | T |
| 2N4300 | S | N | | | LPA | 15W | C | | 100 | 80 | 0 | 30 | 120 | 1.0A | | | | | | 30M | T |
| 2N4301 | S | N | | | LPA | 50W | C | | 100 | 80 | 0 | 30 | 120 | 5.0A | | | | | | 40M | T |
| 2N4302 | | | | | | | | | | | | | | | | | | | | | |
| thru | Field Effect Transistors, see Table on Page 1-166 | | | | | | | | | | | | | | | | | | | | |
| 2N4304 | S | N | | | LPA | 1.5W | A | | 120 | 80 | 0 | 50 | 150 | 1.0A | | | | | | | |
| 2N4305 | S | N | | | LPA | 4.0W | A | | 120 | 80</ | | | | | | | | | | | |