

5. RECTIFIERS

IN ORDER OF (1) PIV, (2) MAX AVG FWD CURRENT
(3) TEMPERATURE, and (4) TYPE No.

| LINE No. | TYPE No. | PIV (V) | MAX AVG FWD DC CURRENT | | MAX RATINGS @ 25°C | | DISS. (W) | MAX. TEMP. (°C) | MAXIMUM FORWARD VOLTAGE DROP | | | MAX. REVERSE CURRENT | | | AVALANCHE RATINGS | | DESCRIPTION | | |
|----------|-------------|---------|------------------------|----------------|--------------------|-----------------|-----------|-----------------|------------------------------|-----------------------|--------------|--|--|-------------|-------------------------|-----------|-----------------|------|----------|
| | | | 2 I _o (A) | 3 at TEMP (°C) | PEAK 1 Cy (A) | PULSE WIDTH (s) | | | V _f (V) | at I _f (A) | at TEMP (°C) | I _r @ 25°C & V _r (A) | I _r at T & V _r (A) | TEMP T (°C) | VOLT V _r (V) | MAX V (V) | MIN SLOPE (A/V) | MAT. | DWG. No. |
| | | | 1 | JAN1N3174R | 1.2k | 175 | | | 150C | 3.0k | 8.3m | 175C | 1.4 † | 750 | 25C | 8.0m | 30m | 175C | 1.0k |
| 2# | 20DN120 | 1.2k | 200 | 100 | 3.5k | 10m | 150J | 1.5 | 785 | 80C | | 45m | 100C | 1.2k | Si | S96h | | | |
| 3# | SA2012R | 1.2k | 200 | 100C | 4.0k | 10m | 150J | 1.4 † | 600 | 25C | | 15m | 150J | 1.2k | Si | S199n | | | |
| 4# | SU2012 | 1.2k | 200 | 100C | 4.0k | 10m | 240 | 150J | 1.4 | 200 † | 25J | 15m | 150J | 1.2k | Si | S199n | | | |
| 5# | SV2012 | 1.2k | 200 | 100C | 4.0k | 10m | | 150J | 1.4 | 600 | 25J | 20m | 150C | 1.2k | Si | DO8 | | | |
| 6# | S20N1300JA | 1.2k | 210 | 100C | 4.5k | 10m | | 150J | 1.35 † | 600 | 25C | 2.0m | 30m | 150C | 1.2k | Si | M378 | | |
| 7# | S20P1300JA | 1.2k | 220 | 100C | 4.0k | 10m | | 175J | 1.35 † | 600 | 25C | 2.0m | 30m | 175J | 1.2k | Si | M378 | | |
| 8 | 1N3175 | 1.2k | 240 | 100C | 3.0k | | | 150J | 1.4 | | | | 15m | 100C | 1.2k | Si | DO9 | | |
| 9# | FD250A24 | 1.2k | 240 | 105C | 5.0k | 8.3m | | 150J | 1.73 † | 750 | 25C | | 30m | 150J | 1.2k | Si | M567 | | |
| 10# | SR200DL24R | 1.2k | 240 | 113C | 5.0k | 8.3m | | 175J | 1.40 † | 750 | 25C | | 30m | 175J | 1.2k | Si | S435c | | |
| 11# | 251F12S | 1.2k | 250 | 50C | 4.5k | | | 175J | 1.45 | 1.0k | 25J | 8.0m | 175J | 1.2k | Si | S12n | | | |
| 12# | 25DNH120 | 1.2k | 250 | 85 | 3.5k | 10m | | 150 | 1.6 | 785 | 80 | | 45m | 86 | 1.2k | Si | | | |
| 13# | 25DN120 | 1.2k | 250 | 96C | 4.0k | 10m | | 150J | 1.3 | 785 | 80C | | 45m | 96C | 1.2k | Si | S96h | | |
| 14# | DSD250-12A | 1.2k | 250 | 100C | 5.0k | 10m | | 150J | 1.95 | 1.0k | 25J | | 80m | 150J | 1.2k | Si | M839a | | |
| 15 | A197PB | 1.2k | 250 | 110C | 5.0k | 8.3m | | 175J | 1.6 † | 740 | 53C | | 40m | 125J | 1.2k | Si | S435a | | |
| 16# | 1S2257 | 1.2k | 250 | 111C | 5.0k | 8.3m | | 150J | 1.75 | 780 | 25C | | 30m | 150J | 1.2k | Si | M567 | | |
| 17# | J5R3 | 1.2k | 250 | 122C | 4.5k | 8.3m | | 190C | 1.2 | 300 | 25C | | 10m | 150C | 1.2k | Si | DO9 | | |
| 18 | S53120 | 1.2k | 250 | 122C | 4.5k | 8.3m | | 190J | 1.2 | 300 | 25C | | 10m | 150C | 1.2k | Si | DO9 | | |
| 19 | S53120TS | 1.2k | 250 | 122C | 4.5k | 8.3m | | 190J | 1.2 | 300 | 25C | | 10m | 150C | 1.2k | Si | S464a | | |
| 20# | BYX33/1200 | 1.2k | 250 | 125B | 4.0k | 10m | | 190J | 1.8 | 1.2k | 190J | | 20m | 175J | 1.2k | Si | M294 | | |
| 21 | 1N3743 | 1.2k | 250 | 130C | 4.5k | 8.3m | | 200C | 1.1 Δ | 250 | 130C | | 7.0m | 130B | 1.2k | Si | DO9 | | |
| 22 | S503120 | 1.2k | 250 | 136C | 4.5k | 8.3m | | 190J | 1.65 | 1.5k | 25C | | 10m | 150C | 1.2k | Si | DO9 | | |
| 23 | S503120TS | 1.2k | 250 | 136C | 4.5k | 8.3m | | 190J | 1.65 | 1.5k | 25C | | 10m | 150C | 1.2k | Si | S464a | | |
| 24 | A190PB | 1.2k | 250 | 144C | 6.5k | 8.3m | | 200J | 1.3 † | 790 | 144C | | 8.0m | 130C | 1.2k | Si | S435a | | |
| 25# | 70U120 | 1.2k | 250 | 150B | 5.0k | 10m | | 200J | 1.4 | 1.0k | 25 | | 30m | 150J | 1.2k | Si | DO9 | | |
| 26# | AS12N | 1.2k | 250 | 150J | 5.0k | 10m | | 150J | 1.10 | 500 | 150J | | 20m | 150J | 1.2k | Si | S132a | | |
| 27# | S15EN270 | 1.2k | 290 | 125B | 4.7k | 10m | | 170J | 1.29 | 910 | | | 50m | | 1.2k | Si* | M307 | | |
| 28# | S15HN270 | 1.2k | 290 | 125B | 4.7k | 10m | | 170J | 1.29 | 910 | | | 50m | | 1.2k | Si* | M873 | | |
| 29# | 30DN120 | 1.2k | 300 | 90C | 4.5k | 10m | | 150J | 1.4 | 940 | 80C | | 60m | 90C | 1.2k | Si | S96h | | |
| 30 | S12EN301 | 1.2k | 300 | 100C | 5.1k | 10m | 410 | 100B | .65 ∅ | 300 | 100B | 10m | 35m | 100B | 1.2k | Si | M307 | | |
| 31 | S12FN301 | 1.2k | 300 | 100B | 5.1k | 10m | 410 | 100B | .65 ∅ | 300 | 100B | | 35m | 100B | 1.2k | Si | M248 | | |
| 32 | S12GN301 | 1.2k | 300 | 100B | 5.1k | 10m | 410 | 100B | .65 ∅ | 300 | 100B | | 35m | 100B | 1.2k | Si | M248a | | |
| 33 | S12HN301 | 1.2k | 300 | 100B | 5.1k | 10m | 410 | 100B | .65 ∅ | 300 | 100B | | 35m | 100B | 1.2k | Si | M370 | | |
| 34# | SL12PHN300 | 1.2k | 300 | 100C | 5.5k | 10m | 370 # | 150C | 1.2 | 785 | 150C | | 15m | 150C | 1.2k | Si | S497 | | |
| 35# | TA3012R | 1.2k | 300 | 100C | 6.0k | 10m | | | 1.4 | 1.0k | | | 15m | 150C | 1.2k | Si | S316 | | |
| 36# | TU3012 | 1.2k | 300 | 100C | 5.0k | 10m | 350 | 150J | 1.4 | 300 † | 25J | | 10m | 150J | 1.2k | Si | S316 | | |
| 37# | TV3012 | 1.2k | 300 | 110C | 6.0k | 10m | | 180J | 1.4 | 1.0k | 25J | | 30m | 180C | 1.2k | Si | DO9 | | |
| 38 | 300U120A | 1.2k | 300 | 120C | 5.0k | 8.3m | | 200J | 1.4 | 300 † | 20C | | 7m | 120C | 1.2k | Si* | DO9 | | |
| 39 | 30U120 | 1.2k | 300 | 120C | 6.2k | 8.3m | | 200J | 1.62 † | 300 | 120C | | 20m | 120C | 1.2k | Si | DO9 | | |
| 40 | S504120 | 1.2k | 300 | 132C | 5.0k | 8.3m | | 190J | 1.45 | 1.5k | 25C | | 10m | 150C | 1.2k | Si | DO9 | | |
| 41 | S504120TS | 1.2k | 300 | 132C | 5.0k | 8.3m | | 190J | 1.45 | 1.5k | 25C | | 10m | 150C | 1.2k | Si | S464a | | |
| 42 | R620123000 | 1.2k | 300 | 142C | 5.5k | 8.3m | | 190J | 1.7 | 800 | 25J | | 50m | 190J | 1.2k | Si | M687 | | |
| 43# | 305U120 | 1.2k | 300 | 155B | 5.2k | 10m | | 200A | 4.0 | 1.5k | 25J | | 20m | 150J | 1.2k | Si | S467 | | |
| 44# | S15EN290 | 1.2k | 310 | 125B | 5.0k | 10m | | 170J | 1.26 | 975 | | | 50m | | 1.2k | Si* | M307 | | |
| 45# | S15HN290 | 1.2k | 310 | 125B | 5.0k | 10m | | 170J | 1.26 | 975 | | | 50m | | 1.2k | Si* | M873 | | |
| 46# | S30N1300JA4 | 1.2k | 320 | 100C | 4.5k | 10m | | 175J | 1.25 † | 600 | 25C | 2.0m | 30m | 175C | 1.2k | Si | M378 | | |
| 47# | SKN240/12 | 1.2k | 320 | 100C | 6.0k | 10m | | 180J | 1.4 | 750 | 25J | 1.0m | | 840 | | Si | DO9 | | |
| 48# | S12EN300 | 1.2k | 340 | 125B | 2.0k | 20m | | 160B | 900m | 340 | | | 50m | 125 | 1.2k | Si* | M307 | | |
| 49# | S12HN300 | 1.2k | 340 | 125B | 7.2k | 10m | | 160B | 900m | 340 | | | 50m | 125 | 1.2k | Si* | M307 | | |
| 50 | ST20-120 | 1.2k | 350 | 25A | 7.0k | | | 175J | 1.2 | 350 | 25A | | 40m | 25A | 1.2k | Si* | S203c | | |
| 51# | 300QD11 | 1.2k | 350 | 90B | 6.5k | 10m | | 150J | 1.42 | 1k | 25A | | 20m | 150J | 1.2k | Si | S12b | | |
| 52# | AS12T | 1.2k | 350 | 150J | 7.0k | 10m | | 150J | 920m | 500 | 150J | | 20m | 150J | 1.2k | Si | S132a | | |
| 53# | S15EN350 | 1.2k | 370 | 125B | 6.2k | 10m | | 170J | 1.2 | 1.1k | | | 50m | | 1.2k | Si* | M307 | | |
| 54# | S15HN350 | 1.2k | 370 | 125B | 6.2k | 10m | | 170J | 1.2 | 1.1k | | | 50m | | 1.2k | Si* | M873 | | |
| 55# | 40DNH120 | 1.2k | 400 | 60 | 4.5k | 10m | | 150 | 1.6 | 1.2k | 80 | 10m | 60m | 64C | 1.2k | Si | S96j | | |
| 56# | 40DN120 | 1.2k | 400 | 75C | 5.0k | 10m | | 150J | 1.4 | 1.2k | 80C | | 10m | 60m | 75C | 1.2k | Si | M771 | |
| 57 | A397PB | 1.2k | 400 | 110 | 5.0k | 8.3m | | 175 | 1.4 | 400 | 125C | | | | | Si | M900 | | |
| 58 | NLA397PB | 1.2k | 400 | 110C | 5.0k | 8.3m | | 125J | 1.5 | 1.0k | 25C | | 25m | 125J | 1.2k | Si | M900 | | |
| 59# | BYX51-1200 | 1.2k | 400 | 115C | 6.0k | 10m | | 190J | 1.5 | 1.2k | 25J | | 30m | 175J | 1.2k | Si | M294b | | |
| 60 | R620124000 | 1.2k | 400 | 128C | 6.0k | 8.3m | | 190J | 1.5 | 800 | 25J | | 50m | 190J | 1.2k | Si | M687 | | |
| 61# | SR400EL-24 | 1.2k | 400 | 128C | 10k | 8.3m | | 175J | 1.40 † | 1.2k | 25C | | 30m | 175J | 1.2k | Si | S502 | | |
| 62 | A390PB | 1.2k | 400 | 145 | 7.0k | 8.3m | | 200J | 1.4 | 1.2k | 144C | | 8.0m | 130C | 1.2k | Si | M771 | | |
| 63 | NLA390PB | 1.2k | 400 | 145C | 7.0k | | | 200J | 1.4 | 400 | 144C | | 8.0m | 130C | 1.2k | Si | M900 | | |
| 64# | SKN320/12 | 1.2k | 420 | 100C | 9.0k | 10m | | 180J | 1.35 | 1.0k | 25J | 1.5m | | 840 | | Si | S453 | | |
| 65 | FD600-12 | 1.2k | 430 | 150J | 5.5k | 8.3m | | 190J | 1.50 | 500 | 150J | 10m | 40m | 150J | 1.2k | Si | M637a | | |
| 66# | 40DNG120 | 1.2k | 450 | 70 | 5.0k | 10m | | 150 | 1.25 | 1.2k | 80 | | 60m | 70 | | Si | S96j | | |
| 67# | CG1-25-12 | 1.2k | 450 | 100C | 6.0k | 10m | | 150J | 1.4 | 1.0k | | | 15m | 180C | 1.2k | Si | | | |
| 68 | 471PDA120 | 1.2k | 470 | 105C | 6.2k | 8.3m | | 200J | 2.0 | 470 † | 105C | | 20m | 105C | 1.2k | Si | E200a | | |
| 69# | D250S1200 | 1.2k | 490 | 60C | 5.0k | 10m | | 150J | 1.95 | 1.0k | 25J | 10m | 80m | 150J | 1.2k | Si | M486% | | |
| 70# | S12GN311 | 1.2k | 490 | 100C | 7.5k | 10m | 730 # | 175J | 1.8 | 1.5k | 175J | | 25m | 175J | 1.2k | Si | M522 | | |
| 71# | S12HN311 | 1.2k | 490 | 100C | 7.5k | 10m | 730 # | 175J | 1.8 | 1.5k | 175J | | 25m | 175J | 1.2k | Si | M523 | | |
| 72# | DS402ST12 | 1.2k | 500 | 55C | 4.5k | 10m | 900 | 175C | 1.25 | 450 | 25J | | 15m | 175C | 1.2k | Si | M952 | | |
| 73 | 501V120 | 1.2k | 500 | 105C | 8.0k | 8.3m | | 200J | 1.45 | 500 † | 105C | | 16m | 105C | 1.2k | Si | S120g | | |
| 74# | 50DP120 | 1.2k | 500 | 110 | 8.0k | 10m | | 150 | 1.4 | 1.2k | 80 | 10m | 60m | 110C | | Si | | | |
| 75 | R620125000 | 1.2k | 500 | 112C | 6.5k | 8.3m | | 190J | 1.4 | 800 | 25J | | 50m | 190J | 1.2k | Si | M687 | | |
| 76 | 501V120B | 1.2k | 500 | 120C | 10k | 8.3m | | 200J | 1.2 | 500 † | 120C | | 16m | 120C | 1.2k | Si | S120g | | |
| 77 | 501VR120 | 1.2k | 500 | 120C | 8.0k | 8.3m | | 200J | 1.45 | 500 † | 120C | | 16m | 120C | 1.2k | Si | S120g | | |
| 78# | 150MA120 | 1.2k | 500 | 129B | 9.0k | 10m | | 175A | 1.5 † | 1.5 | 175J | | 50m | | 1.2k | Si | S8p | | |
| | | | | | | | | | | | | | | | | | | | |