

| TYPE NO | CONSTRUCTION | PACKAGE & PINOUT | V <sub>DS</sub> MAX | I <sub>D</sub> MAX | T <sub>J</sub> MAX | P <sub>TOT</sub> MAX | V <sub>GS(OFF)</sub> or V <sub>GS(TH)</sub> | I <sub>DSS</sub> or I <sub>D(ON)</sub> | G <sub>FS</sub> | R <sub>DS(ON)</sub> MAX | C <sub>ISS</sub> MAX | C <sub>RSS</sub> MAX | USE   | MNF     | SUBSTITUTE |         |         |
|---------|--------------|------------------|---------------------|--------------------|--------------------|----------------------|---|--|-----------------|-------------------------|----------------------|----------------------|-------|---------|------------|---------|---------|
|         |              |                  |                     |                    |                    |                      |   |  |                 |                         |                      |                      |       |         |            |         |         |
| BC264L  | NJD          | T092 A           | 30V                 | 60mA               | 150C               | 300mWF               | 0.5/8V                                      | 2/12mA                                 | 2.5mSnn         | -                       | -                    | -                    | 6P0   | 2P0     | ALN TIS    | BFW11   | 2N3684  |
| BC264LA | NJD          | T092 A           | 30V                 | 60mA               | 150C               | 300mWF               | 0.5/8V                                      | 2/4.5mA                                | 2.5mSnn         | -                       | -                    | -                    | 6P0   | 2P0     | ALN TIS    | BFW54   | 2N3684  |
| BC264LB | NJD          | T092 A           | 30V                 | 60mA               | 150C               | 300mWF               | 0.5/8V                                      | 3.5/7mA                                | 2.5mSnn         | -                       | -                    | -                    | 6P0   | 2P0     | ALN TIS    | BFW11   | 2N3684  |
| BC264LC | NJD          | T092 A           | 30V                 | 60mA               | 150C               | 300mWF               | 0.5/8V                                      | 5/8mA                                  | 2.5mSnn         | -                       | -                    | -                    | 6P0   | 2P0     | ALN TIS    | BFW11   | 2N3684  |
| BC264LD | NJD          | T092 A           | 30V                 | 60mA               | 150C               | 300mWF               | 0.5/8V                                      | 7/12mA                                 | 2.5mSnn         | -                       | -                    | -                    | 6P0   | 2P0     | ALN TIS    | BFW11   | 2N3684  |
| BD512   | PME          | T0202 Fd         | 60V                 | 1.5A               | 150C               | 10WC                 | 1/3V  | -                                      | 150mStp         | 10R                     | 50P                  | -                    | AMM   | ITT     | -          | -       | -       |
| BD522   | NME          | T0202 Fd         | 60V                 | 1.5A               | 150C               | 10WC                 | 0.8/2V                                      | -                                      | 150mStp         | 4R0                     | 35P                  | -                    | AMM   | ITT     | -          | -       | -       |
| BF244   | NJD          | T092 A           | 30V                 | 10mA               | 150C               | 300mWF               | 0.5/8V                                      | 2/25mA                                 | 3/6.5mS         | -                       | -                    | -                    | 4P0   | 1P1     | ALG PHI    | BFW61   | 2N3819  |
| BF244A  | NJD          | T092 A           | 30V                 | 10mA               | 125C               | 300mWF               | 0.5/0.8V                                    | 2/6.5mA                                | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P2     | ALG PHI    | BFW61   | 2N5458  |
| BF244A1 | NJD          | T092 A           | 30V                 | 25mA               | 150C               | 300mWF               | 0.4/1V                                      | 2/3mA                                  | 3/6.5mS         | -                       | -                    | -                    | 4P0   | 1P6     | ALG PHI    | -       | -       |
| BF244A2 | NJD          | T092 A           | 30V                 | 25mA               | 150C               | 300mWF               | 0.7/1.4V                                    | 3/4.5mA                                | 3/6.5mS         | -                       | -                    | -                    | 4P0   | 1P6     | ALG PHI    | -       | -       |
| BF244A3 | NJD          | T092 A           | 30V                 | 25mA               | 150C               | 300mWF               | 1.1/2.2V                                    | 4.5/6.5mA                              | 3/6.5mS         | -                       | -                    | -                    | 4P0   | 1P6     | ALG PHI    | -       | -       |
| BF244B  | NJD          | T092 A           | 30V                 | 10mA               | 125C               | 300mWF               | 0.5/0.8V                                    | 6/15mA                                 | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P2     | ALG PHI    | BC264D  | 2N6451  |
| BF244C  | NJD          | T092 A           | 30V                 | 10mA               | 125C               | 300mWF               | 0.5/0.8V                                    | 12/25mA                                | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P2     | ALG PHI    | BF347   | 2N6451  |
| BF245   | NJD          | T092 B           | 30V                 | 35mA               | 150C               | 300mWF               | 0.5/8V                                      | 2/25mA                                 | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P0     | ALG PHI    | BF811   | 2N6451  |
| BF245A  | NJD          | T092 B           | 30V                 | 35mA               | 150C               | 300mWF               | 0.5/8V                                      | 2/6.5mA                                | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P0     | ALG PHI    | BFW56   | 2N3822  |
| BF245B  | NJD          | T092 B           | 30V                 | 35mA               | 150C               | 300mWF               | 0.5/8V                                      | 6/15mA                                 | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P0     | ALG PHI    | BF811   | 2N5459  |
| BF245C  | NJD          | T092 B           | 30V                 | 35mA               | 150C               | 300mWF               | 0.5/8V                                      | 12/25mA                                | 3/6.5mS         | -                       | -                    | -                    | 8P0   | 2P0     | ALG PHI    | BF244   | 2N5397  |
| BF246   | NJD          | T092 A           | 25V                 | 260mA              | 150C               | 300mWF               | 0.6/14.5V                                   | 30/250mA                               | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4859  |
| BF246A  | NJD          | T092 A           | 25V                 | 260mA              | 150C               | 300mWF               | 0.6/14.5V                                   | 30/80mA                                | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4392  |
| BF246B  | NJD          | T092 A           | 25V                 | 260mA              | 150C               | 300mWF               | 0.6/14.5V                                   | 60/140mA                               | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4856  |
| BF246C  | NJD          | T092 A           | 25V                 | 260mA              | 150C               | 300mWF               | 0.6/14V                                     | 110/250mA                              | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4856  |
| BF247   | NJD          | T092 B           | 30V                 | 260mA              | 150C               | 300mWF               | 0.6/15V                                     | 30/250mA                               | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BF348   | 2N6453  |
| BF247A  | NJD          | T092 B           | 25V                 | 260mA              | 150C               | 300mWF               | 0.6/14V                                     | 30/80mA                                | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4392  |
| BF247B  | NJD          | T092 B           | 25V                 | 260mA              | 150C               | 200mWF               | 0.6/14V                                     | 60/140mA                               | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4856  |
| BF247C  | NJD          | T092 B           | 25V                 | 260mA              | 150C               | 200mWF               | 0.6/14V                                     | 110/250mA                              | 8/50mS          | -                       | -                    | -                    | 30P   | 7P0     | ALG TEL    | BSV78   | 2N4856  |
| BF256   | NJD          | T092 B           | 30V                 | 30mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 3/18mA                                 | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256L  | 2N5245  |
| BF256A  | NJD          | T092 B           | 30V                 | 10mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 3/7mA                                  | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256LA | 2N5246  |
| BF256B  | NJD          | T092 B           | 30V                 | 30mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 6/13mA                                 | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256LB | 2N5245  |
| BF256B1 | NJD          | T092 B           | 30V                 | 30mA               | 150C               | 300mWF               | 1.4/2.6V                                    | 6/8mA                                  | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | -       | -       |
| BF256C  | NJD          | T092 B           | 30V                 | 30mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 11/18mA                                | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256LC | 2N4416  |
| BF256L  | NJD          | T092 A           | 30V                 | 30mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 3/18mA                                 | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256   | 2N5245  |
| BF256LA | NJD          | T092 A           | 30V                 | 10mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 3/7mA                                  | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256A  | 2N5246  |
| BF256LB | NJD          | T092 A           | 30V                 | 30mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 6/13mA                                 | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256B  | 2N5245  |
| BF256LC | NJD          | T092 A           | 30V                 | 30mA               | 150C               | 300mWF               | 0.5/7.5V                                    | 11/18mA                                | 4.5mSnn         | -                       | -                    | -                    | 4P5   | 1P2     | TUG PHI    | BF256C  | 2N4416  |
| BF320   | PJD          | T092 A           | 15V                 | 25mA               | 125C               | 200mWF               | 8Vmx  | 0.3/15mA                               | 0.8/5mS         | -                       | -                    | -                    | 32P   | 16P     | ALG TIS    | BFX83   | 2N3380  |
| BF320A  | PJD          | T092 A           | 15V                 | 25mA               | 125C               | 200mWF               | 8Vmx  | 0.3/4.5mA                              | 0.8/5mS         | -                       | -                    | -                    | 32P   | 16P     | ALG TIS    | BFX83   | 2N5270  |
| BF320B  | PJD          | T092 A           | 15V                 | 25mA               | 125C               | 200mWF               | 8Vmx  | 3/8.5mA                                | 0.8/5mS         | -                       | -                    | -                    | 32P   | 16P     | ALG TIS    | BFX83   | 2N3380  |
| BF320C  | PJD          | T092 A           | 15V                 | 25mA               | 125C               | 200mWF               | 8Vmx  | 7.5/15mA                               | 0.8/5mS         | -                       | -                    | -                    | 32P   | 16P     | ALG TIS    | BFX83   | 2N3380  |
| BF327   | NMD          | SOT103 L         | 20V                 | 100mA              | 150C               | 300mWF               | 1.5/3.8V                                    | 20/55mA                                | 12mSnn          | -                       | -                    | -                    | 5P0   | 0P03    | ALG FVG    | BF900   | -       |
| BF346   | NJD          | T092 B           | 15V                 | 90mA               | 135C               | 300mWF               | 0.5/5.5V                                    | 2/80mA                                 | 16/60mS         | -                       | -                    | -                    | 5P6   | ALG TIS | BF818      | 2N6453  |         |
| BF346A  | NJD          | T092 B           | 15V                 | 90mA               | 135C               | 300mWF               | 0.5/5.5V                                    | 2/18mA                                 | 16/60mS         | -                       | -                    | -                    | 5P6   | ALG TIS | BF811      | 2N6451  |         |
| BF346B  | NJD          | T092 B           | 15V                 | 90mA               | 135C               | 300mWF               | 0.5/5.5V                                    | 12/35mA                                | 16/60mS         | -                       | -                    | -                    | 5P6   | ALG TIS | BF244      | 2N6453  |         |
| BF346C  | NJD          | T092 B           | 15V                 | 90mA               | 135C               | 300mWF               | 0.5/5.5V                                    | 28/80mA                                | 16/60mS         | -                       | -                    | -                    | 5P6   | ALG TIS | BF818      | 2N6453  |         |
| BF347   | NJD          | T092 A           | 30V                 | 12mA               | 150C               | 400mWF               | 1Vmx  | 0.5/2.5mA                              | 3/7.5mS         | 350R                    | -                    | -                    | -     | RLS     | TIS        | BF256A  | 2N3687  |
| BF348   | NJD          | T092 B           | 40V                 | 25mA               | 150C               | 200mWF               | 6Vmx  | 10/60mA                                | 10/15mS         | -                       | -                    | -                    | 1P5   | FVG TIS | BFW61      | 2N5397  |         |
| BF350   | NMD          | T072 H           | 15V                 | 50mA               | 175C               | 400mWF               | 5Vmx  | 3/30mA                                 | 10mStp          | -                       | 20P                  | -                    | 0P04  | FVG TIS | BF528      | 3N140   |         |
| BF351   | NMD          | T072 H           | 24V                 | 50mA               | 175C               | 400mWF               | 1/5V  | 5/30mA                                 | 14mStp          | -                       | -                    | -                    | 12P   | 0P04    | FVG TIS    | BF528   | 3N140   |
| BF352   | NMD          | T072 H           | 24V                 | 50mA               | 175C               | 400mWF               | 2Vmx  | 5/30mA                                 | 14mStp          | -                       | -                    | -                    | 12P   | 0P04    | FVG TIS    | BF353   | 3N187   |
| BF353   | NMD          | T072 H           | 24V                 | 50mA               | 175C               | 400mWF               | 3Vmx  | 5/30mA                                 | 12mStp          | -                       | -                    | -                    | 12P   | 0P02    | FVG TIS    | BF905   | 3N140   |
| BF354   | NMD          | T072 H           | 24V                 | 50mA               | 175C               | 400mWF               | 3Vmx  | 7/15mA                                 | 1.5/3.5mS       | -                       | -                    | -                    | 3P5   | 0P02    | FVG TIS    | BF528   | 3N187   |
| BF410   | NJD          | T092 B           | 20V                 | 30mA               | 150C               | 300mWF               | 3Vtp  | 0.7/18mA                               | 2.5mSnn         | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | BF245   | -       |
| BF410A  | NJD          | T092 B           | 20V                 | 30mA               | 150C               | 300mWF               | 0.8Vtp                                      | 0.7/3mA                                | 2.5mSnn         | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | BF346   | -       |
| BF410B  | NJD          | T092 B           | 20V                 | 30mA               | 150C               | 300mWF               | 1.5Vtp                                      | 2.5/7mA                                | 4mSnn           | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | BF346   | -       |
| BF410C  | NJD          | T092 B           | 20V                 | 30mA               | 150C               | 300mWF               | 2.2Vtp                                      | 6/12mA                                 | 6mSnn           | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | BF346   | -       |
| BF410D  | NJD          | T092 B           | 20V                 | 30mA               | 150C               | 300mWF               | 3Vtp  | 10/18mA                                | 7mSnn           | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | BF346   | -       |
| BF510   | NJD          | T0236 B          | 20V                 | 30mA               | 150C               | 300mWF               | 0.8Vtp                                      | 0.7/3mA                                | 2.5mSnn         | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | -       | -       |
| BF511   | NJD          | T0236 B          | 20V                 | 30mA               | 150C               | 300mWF               | 1.5Vtp                                      | 2.5/7mA                                | 4mSnn           | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | -       | -       |
| BF512   | NJD          | T0236 B          | 20V                 | 30mA               | 150C               | 300mWF               | 2.2Vtp                                      | 6/12mA                                 | 6mSnn           | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | -       | -       |
| BF513   | NJD          | T0236 B          | 20V                 | 30mA               | 150C               | 300mWF               | 3Vtp  | 10/18mA                                | 7mSnn           | -                       | -                    | -                    | 5P0   | 0P4     | VLA PHI    | -       | -       |
| BF543   | NMD          | SOT23 B          | 20V                 | 30mA               | 150C               | 200mWF               | 1.5Vmx                                      | 2/6mA                                  | 9.5mSnn         | -                       | -                    | -                    | 2P7tp | P018tp  | VLA SIE    | -       | -       |
| BF544   | NMD          | T082 C           | 20V                 | 30mA               | 150C               | 200mWF               | 1.5Vmx                                      | 2/6mA                                  | 9.5mSnn         | -                       | -                    | -                    | 2P8tp | P035tp  | VLA SIE    | -       | -       |
| BF800   | NJD          | T072 Ek          | 25V                 | 10mA               | 200C               | 400mWF               | 6Vmx  | 0.3/1.2mA                              | 200/700μS       | -                       | -                    | -                    | 2P6   | 0P8     | ALN TIS    | BF801   | 2N4867  |
| BF801   | NJD          | T072 Ek          | 25V                 | 10mA               | 200C               | 400mWF               | 6Vmx  | 0.3/1.2mA                              | 200/700μS       | -                       | -                    | -                    | 2P6   | 0P8     | ALN TIS    | BF801   | 2N4867  |
| BF802   | NJD          | T072 Ek          | 25V                 | 10mA               | 200C               | 400mWF               | 6Vmx  | 0.3/1.2mA                              | 200/700μS       | -                       | -                    | -                    | 2P6   | 0P8     | ALN TIS    | BF800   | 2N3687A |
| BF803   | NJD          | T072 Ek          | 30V                 | 1200μA             | 200C               | 400mWF               | 3Vmx  | 0.8mA                                  | 250/500μS       | -                       | -                    | -                    | 2P6   | 0P8     | ALN TIS    | -       | 2N3687A |
| BF804   | NJD          | T072 Ek          | 30V                 | 1200μA             | 200C               | 400mWF               | 5Vmx  | 0.3/1.2mA                              | 250/500μS       | -                       | -                    | -                    | 2P6   | 0P8     | ALN TIS    | BF800   | 2N3687A |
| BF805   | NJD          | T072 Ek          | 30V                 | 10mA               | 200C               | 300mWF               | 6Vmx  | 3/13mA                                 | 300/500μS       | -                       | -                    | -                    | 3P5   | 1P5     | ALN TIS    | BF806   | 2N4869  |
| BF806   | NJD          | T072 Ek          | 30V                 | 10mA               | 200C               | 300mWF               | 6Vmx  | 3/13mA                                 | 3/5.5mS         | -                       | -                    | -                    | 3P5   | 1P5     | ALN TIS    | BF805   | 2N4869  |
| BF808   | NJD          |                  |                     |                    |                    |                      |   |  |                 |                         |                      |                      |       |         |            |         |         |