

| TYPE NO  | CONSTRUC<br>TION | PACKAGE<br>&<br>PINOUT | V <sub>DS</sub> | I <sub>D</sub> | T <sub>J</sub> | P <sub>TOT</sub> | V <sub>GS(OFF)</sub><br>or<br>V <sub>GS(TH)</sub> | I <sub>LOSS</sub><br>or<br>I <sub>D(OH)</sub> | G <sub>FS</sub> | R <sub>DS(ON)</sub> | C <sub>ISS</sub> | C <sub>ASS</sub> | USE | MNF | SUBSTITUTE |
|----------|------------------|------------------------|-----------------|----------------|----------------|------------------|---|---|-----------------|---------------------|------------------|------------------|-----|-----|------------|
|          |                  |                        | MAX             | MAX            | MAX            | MAX              | MAX   | MAX   |                 | MAX                 | MAX              | MAX              | MAX | MAX |            |
| 2SK356/4 | NME              | T03 C                  | 250V            | 12A            | 150C           | 120WC            | 2.3/2.8V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | UFN44C1    |
| 2SK356/5 | NME              | T03 C                  | 250V            | 12A            | 150C           | 120WC            | 2.6/3.1V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | UFN44C1    |
| 2SK356/6 | NME              | T03 C                  | 250V            | 12A            | 150C           | 120WC            | 2.9/3.5V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | UFN44C1    |
| 2SK357   | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 1.5/3.5V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK357/1 | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 1.5/1.9V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK357/2 | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 1.7/2.2V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK357/3 | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 2/2.5V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK357/4 | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 2.3/2.8V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK357/5 | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 2.6/3.1V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK357/6 | NME              | T0220 Dd               | 150V            | 5A             | 150C           | 40WC             | 2.9/3.5V  |   | 800mSmn         | OR9                 | 350P             | 100P             | RHH | TOS | BUZ30      |
| 2SK358   | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 1.5/3.5V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK358/1 | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 1.5/1.9V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK358/2 | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 1.7/2.2V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK358/3 | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 2/2.5V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK358/4 | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 2.3/2.8V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK358/5 | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 2.6/3.1V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK358/6 | NME              | T0220 Dd               | 250V            | 5A             | 150C           | 40WC             | 2.9/3.5V  |   | 1Smn            | 1R0                 | 500P             | 120P             | RHH | TOS | VN2330N5   |
| 2SK374   | NJD              | SOT89 A                | 55V             | 30mA           |                |                  |   | 20mA <sub>mx</sub>                            | 2.5mStp         |                     |                  |                  | ALN | MAT | 2N4341     |
| 2SK375L  | NME              | T0251 Dd               | 300V            | 1A             | 150C           | 10WC             | 1/5V  |   | 200mSmn         | 4R0                 | 220P             | 35P              | RMH | HIT | IRF711     |
| 2SK375S  | NME              | T0252 Dd               | 300V            | 1A             | 150C           | 10WC             | 1/5V  |   | 200mSmn         | 4R0                 | 220P             | 35P              | RMH | HIT | IRF711     |
| 2SK382   | NME              | T0220 Dd               | 500V            | 2A             | 150C           | 30WC             | 2/5V  |   | 400mSmn         | 4R0                 | 700P             | 20P              | RHH | TOS | ZVN0350L   |
| 2SK383   | NME              | T0220 Dd               | 100V            | 10A            | 150C           | 50WC             | 2/5V  |   | 1500mSmn        | OR18                | 1N7              | 120P             | RHG | TOS | MTP12N10   |
| 2SK384L  | NME              | T0251 Dd               | 500V            | 300mA          | 150C           | 10WC             | 1/5V  |   | 60mSmn          | 50R                 | 120P             | 8P0              | RMH | TOS | 2SK337     |
| 2SK384S  | NME              | T0252 Dd               | 500V            | 300mA          | 150C           | 10WC             | 1/5V  |   | 60mSmn          | 50R                 | 120P             | 8P0              | RMH | TOS | 2SK337     |
| 2SK385   | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 1.5/3.5V  |   | 3Smn            | OR6                 | 2N0              | 300P             | RHH | TOS | VN2340N1   |
| 2SK385/1 | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 1.5/1.9V  |   | 3Smn            | OR6R                | 2N0              | 300P             | RHH | TOS | VN2340N1   |
| 2SK385/2 | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 1.7/2.2V  |   | 3Smn            | OR6R                | 2N0              | 300P             | RHH | TOS | VN2340N1   |
| 2SK385/3 | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 2/2.5V  |   | 3Smn            | OR6R                | 2N0              | 300P             | RHH | TOS | N2340N1    |
| 2SK385/4 | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 2.3/2.8V  |   | 3Smn            | OR6                 | 2N0              | 300P             | RHH | TOS | VN2340N1   |
| 2SK385/5 | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 2.6/3.1V  |   | 3Smn            | OR6                 | 2N0              | 300P             | RHH | TOS | VN2340N1   |
| 2SK385/6 | NME              | S25 Dd                 | 400V            | 10A            | 150C           | 150WC            | 2.9/3.5V  |   | 3Smn            | OR6                 | 2N0              | 300P             | RHH | TOS | VN2340N1   |
| 2SK386   | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 1.5/3.5V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | VN2345N1   |
| 2SK386/1 | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 1.5/1.9V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | V2345N1    |
| 2SK386/2 | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 1.7/2.2V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | VN2355N1   |
| 2SK386/3 | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 2/2.5V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | VN2345N1   |
| 2SK386/4 | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 2.3/2.8V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | VN2345N1   |
| 2SK386/5 | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 2.6/3.1V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | VN2345N1   |
| 2SK386/6 | NME              | S25 Dd                 | 450V            | 10A            | 150C           | 150WC            | 2.9/3.5V  |   | 3Smn            | OR7                 | 2N0              | 300P             | RHH | TOS | VN2345N1   |
| 2SK387   | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 1.5/3.5V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK387/1 | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 1.5/1.9V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK387/2 | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 1.7/2.2V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK387/3 | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 2/2.5V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK387/4 | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 2.3/2.8V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK387/5 | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 2.6/3.1V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK387/6 | NME              | S25 Dd                 | 150V            | 12A            | 150C           | 150WC            | 2.9/3.5V  |   | 3Smn            | OR18                | 2N2              | 600P             | RHH | TOS | VN2315N1   |
| 2SK388   | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 1.5/3.5V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK388/1 | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 1.5/1.9V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK388/2 | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 1.7/2.2V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK388/3 | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 2/2.5V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK388/4 | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 2.3/2.8V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK388/5 | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 2.6/3.1V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK388/6 | NME              | S25 Dd                 | 250V            | 12A            | 150C           | 150WC            | 2.9/3.5V  |   | 3Smn            | OR25                | 2N0              | 320P             | RHH | TOS | MTM15N35   |
| 2SK398   | NME              | T03 C                  | 100V            | 10A            | 150C           | 100WC            | 2/5V  |   | 1500mSmn        | OR25                | 1N3              | 110P             | RHG | TOS | MTM10N10   |
| 2SK399   | NME              | T0247 Dd               | 100V            | 10A            | 150C           | 100WC            | 2/5V  |   | 1500mSmn        | OR25                | 1N3              | 110P             | RHG | TOS | IRFP142    |
| 2SK400   | NME              | T0247 Dd               | 200V            | 8A             | 150C           | 100WC            | 2/5V  |   | 1Smn            | OR7                 | 1N2              | 100P             | RHH | TOS | BUZ35      |
| 2SK401   | NME              | T03 C                  | 250V            | 10A            | 150C           | 100WC            | 2/5V  |   | 1600mSmn        | OR4                 | 2N1              | 55P              | RHH | TOS | VN2330N1   |
| 2SK402   | NME              | T0247 Dd               | 400V            | 8A             | 150C           | 100WC            | 2/5V  |   | 1200mSmn        | 1R75                | 1N2              | 35P              | RHH | TOS | IRF352     |
| 2SK403   | NME              | T0247 Dd               | 450V            | 8A             | 150C           | 100WC            | 2/5V  |   | 1200mSmn        | 1R75                | 1N2              | 35P              | RHH | TOS | IRF451     |
| 2SK405   | NME              | T0247 Dd               | 180V            | 8A             | 150C           | 100WC            | 0.8/2.8V  |   | 1Smn            |                     | 430P             | 80P              | RHH | TOS | IRFP242    |
| 2SK408   | NME              | T0220 Cs               | 180V            | 2A             | 150C           | 30WC             | 0.5/3V  |   | 200mSmn         |                     | 160P             | 0P3              | VHA | TOS | IRF612     |
| 2SK409   | NME              | T0220 Bs               | 180V            | 2A             | 150C           | 30WC             | 0.5/3V  |   | 200mSmn         |                     | 160P             | 0P3              | VHA | TOS | IRF612     |
| 2SK410   | NME              | SOT119                 | 180V            | 8A             | 150C           | 120WC            | 0.5/3V  |   | 900mSmn         |                     | 700P             | 0P3              | VHA | TOS |            |
| 2SK411   | NME              | T03 C                  | 600V            | 5A             | 150C           | 100WC            | 2/5V  |   | 1500mSmn        | 3R0                 | 2N2              | 50P              | RHH | TOS | BUZ284     |
| 2SK412   | NME              | T0247 Dd               | 250V            | 10A            | 150C           | 100WC            | 2/5V  |   | 1600mSmn        | OR4                 | 2N2              | 50P              | RHH | TOS | BUZ264     |
| 2SK413   | NME              | T0247 Dd               | 140V            | 8A             | 150C           | 100WC            | 2/5V  |   | 1Smn            | OR5                 | 1N3              | 100P             | RHH | TOS | BUZ25      |
| 2SK414   | NME              | T0247 Dd               | 160V            | 8A             | 150C           | 100WC            | 2/5V  |   | 1Smn            | OR5                 | 1N3              | 100P             | RHH | TOS | BUZ35      |
| 2SK415   | NME              | T0247 Dd               | 800V            | 3A             | 150C           | 80WC             | 2/5V  |   | 400mSmn         | 6R0                 | 800P             | 35P              | RHH | TOS | BUZ83      |
| 2SK416L  | NME              | T0251 Dd               | 40V             | 2A             | 150C           | 10WC             | 1/4V  |   | 200mSmn         | OR8                 | 250P             | 50P              | RHG | TOS | IRF513     |
| 2SK416S  | NME              | T0252 Dd               | 40V             | 2A             | 150C           | 10WC             | 1/4V  |   | 200mSmn         | OR8                 | 250P             | 50P              | RHG | TOS | IRF513     |
| 2SK417   | NME              | S26 Dd                 | 60V             | 10A            | 150C           | 40WC             | 1.5/3.5V  |   | 5Stp            | OR2                 | 1N2              | 500P             | RHG | TOS | 2SK428     |
| 2SK417/1 | NME              | S26 Dd                 | 60V             | 10A            | 150C           | 40WC             | 1.5/1.9V  |   | 5Stp            | OR2                 | 1N2              | 500P             | RHG | TOS | 2SK428     |
| 2SK417/2 | NME              | S26 Dd                 | 60V             | 10A            | 150C           | 40WC             | 1.7/2.2V  |   | 5Stp            | OR2                 | 1N2              | 500P             | RHG | TOS | 2SK428     |
| 2SK417/3 | NME              | S26 Dd                 | 60V             | 10A            | 150C           | 40WC             | 2.0/2.5V  |   | 5Stp            | OR2                 | 1N2              | 500P             | RHG | TOS | 2SK428     |
| 2SK417/4 | NME              | S26 Dd                 | 60V             | 10A            | 150C           | 40WC             | 2.3/2.8V  |   | 5Stp            | OR2                 | 1N2              | 500P             | RHG | TOS | 2SK428     |
| 2SK417/5 | NME              | S26 Dd                 | 60V             | 10A            | 150C           | 40WC             | 2.6/3.1V  |   | 5Stp            | OR2                 | 1N2              | 500P             | RHG | TOS | 2SK428     |