

# NEW ENGLAND SEMICONDUCTOR

## POWER MOSFETS

### N CHANNEL

### TO-254

| PACKAGE                                                                                                           | DEVICE TYPE | BV <sub>DSS</sub><br>VOLTS | I <sub>D</sub><br>AMPS | R <sub>DS(on)</sub><br>@0.5 I <sub>D</sub><br>OHMS | Q <sub>g</sub><br>nc | C <sub>ISS</sub> *<br>pf | P <sub>D</sub><br>WATTS |
|-------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|------------------------|----------------------------------------------------|----------------------|--------------------------|-------------------------|
|  <p>Also available in Z Pack</p> | NSFM150     | 100                        | 25.0                   | 0.065                                              | 120                  | 2400                     | 125                     |
|                                                                                                                   | NSFM240     | 200                        | 15.0                   | 0.2                                                | 70                   | 1200                     | 96                      |
|                                                                                                                   | NSFM250     | 200                        | 24.0                   | 0.1                                                | 140                  | 2400                     | 125                     |
|                                                                                                                   | NSFM340     | 400                        | 8.5                    | 0.56                                               | 65                   | 1200                     | 96                      |
|                                                                                                                   | NSFM350     | 400                        | 15.0                   | 0.3                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSFM360     | 400                        | 28.0                   | 0.2                                                | 210                  | 4100                     | 175                     |
|                                                                                                                   | NSFM440     | 500                        | 8.0                    | 0.85                                               | 55                   | 950                      | 125                     |
|                                                                                                                   | NSFM450     | 500                        | 13.0                   | 0.4                                                | 120                  | 2400                     | 125                     |
|                                                                                                                   | NSFM460     | 500                        | 21.0                   | 0.27                                               | 190                  | 4100                     | 175                     |
|                                                                                                                   | NSF20504    | 500                        | 13.0                   | 0.4                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF205023   | 500                        | 24.0                   | 0.23                                               | 160                  | 4500                     | 175                     |
|                                                                                                                   | NSF20607    | 600                        | 9.0                    | 0.7                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20606    | 600                        | 10.5                   | 0.6                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF206036   | 600                        | 20.0                   | 0.36                                               | 170                  | 4500                     | 175                     |
|                                                                                                                   | NSF20714    | 700                        | 6.5                    | 1.4                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20712    | 700                        | 7.0                    | 1.2                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20812    | 800                        | 7.0                    | 1.2                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20814    | 800                        | 6.5                    | 1.4                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20924    | 900                        | 5.0                    | 2.4                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20920    | 900                        | 5.5                    | 2.0                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF20910    | 900                        | 12.0                   | 1.0                                                | 155                  | 4500                     | 175                     |
|                                                                                                                   | NSF21024    | 1000                       | 5.5                    | 2.4                                                | 105                  | 1800                     | 150                     |
|                                                                                                                   | NSF21011    | 1000                       | 12.0                   | 1.1                                                | 155                  | 4500                     | 175                     |

- Electrical Characteristics @ 25° C unless otherwise noted
- Operational Temperature range: -55° to +150° C
- Storage temperature range: -55° to +150° C
- \* Typical Value