

| 型 名      | 社 名 | f   | 最大定格 (Ta=25℃)                            |                 |                         |                         | 電 気 的 特 性 (Ta=25℃) |                 |                  |                 |                     |      |                                      |                     |       |                 |                    |       |                 |       |                  |                  |                  |                                       | 外 形<br>備 考 |
|----------|-----|-----|------------------------------------------|-----------------|-------------------------|-------------------------|--------------------|-----------------|------------------|-----------------|---------------------|------|--------------------------------------|---------------------|-------|-----------------|--------------------|-------|-----------------|-------|------------------|------------------|------------------|---------------------------------------|------------|
|          |     |     | V <sub>DS</sub><br>or<br>V <sub>DG</sub> | V <sub>GS</sub> | I <sub>D</sub><br>* /CH | P <sub>D</sub><br>* /CH | I <sub>GSS</sub>   |                 | I <sub>DSS</sub> |                 | V <sub>GS(th)</sub> |      | V <sub>DS</sub> =<br>V <sub>GS</sub> | R <sub>DS(on)</sub> |       |                 | I <sub>D(on)</sub> |       | g <sub>fs</sub> |       | C <sub>iss</sub> | C <sub>oss</sub> | Cr <sub>ss</sub> | V <sub>GS</sub> =0<br>V <sub>DS</sub> |            |
|          |     |     |                                          |                 |                         |                         | (max)              | V <sub>GS</sub> | (max)            | V <sub>DS</sub> | min                 | max  |                                      | I <sub>D</sub>      | (max) | V <sub>GS</sub> | I <sub>D</sub>     | (min) | V <sub>GS</sub> | (min) | I <sub>D</sub>   | (*typ)           | (*typ)           |                                       |            |
|          |     |     |                                          |                 |                         |                         | (nA)               | (V)             | (μA)             | (V)             | (V)                 | (V)  |                                      | (mA)                | (Ω)   | (V)             | (A)                | (A)   | (V)             | (S)   | (A)              | (max)            | (max)            |                                       | (max)      |
| (V)      | (V) | (A) | (W)                                      | (nA)            | (V)                     | (μA)                    | (V)                | (V)             | (mA)             | (Ω)             | (V)                 | (A)  | (A)                                  | (V)                 | (S)   | (A)             | (pF)               | (pF)  | (pF)            | (V)   |                  |                  |                  |                                       |            |
| IRFP650  | IR  | N   | 1000                                     | ±20             | 6.1                     | 180                     | ±500               | ±20             | 250              | 1000            | 2.0                 | 4.0  | 0.25                                 | 2.0                 | 10    | 3.5             | 6.1                | 10    | 5.4             | 3.5   | 2800*            | 400*             | 180*             | 25                                    | TO-247AC   |
| IRFP652  | IR  | N   | 1000                                     | ±20             | 5.5                     | 180                     | ±500               | ±20             | 250              | 1000            | 2.0                 | 4.0  | 0.25                                 | 2.4                 | 10    | 3.5             | 5.5                | 10    | 5.4             | 3.5   | 2800*            | 400*             | 180*             | 25                                    | TO-247AC   |
| IRFR010  | IR  | N   | 50                                       | ±20             | 8.2                     | 25                      | ±500               | ±20             | 250              | 50              | 2.0                 | 4.0  | 0.25                                 | 0.20                | 10    | 4.2             | 8.2                | 10    | 2.1             | 3.6   | 250*             | 150*             | 29*              | 25                                    | TO-251AA   |
| IRFR012  | IR  | N   | 50                                       | ±20             | 6.7                     | 25                      | ±500               | ±20             | 250              | 50              | 2.0                 | 4.0  | 0.25                                 | 0.30                | 10    | 4.2             | 6.7                | 10    | 2.1             | 3.6   | 250*             | 150*             | 29*              | 25                                    | TO-251AA   |
| IRFR020  | IR  | N   | 50                                       | ±20             | 15                      | 42                      | ±500               | ±20             | 250              | 50              | 2.0                 | 4.0  | 0.25                                 | 0.10                | 10    | 8.7             | 15                 | 10    | 3.6             | 8.7   | 400*             | 260*             | 44*              | 25                                    | TO-251AA   |
| IRFR022  | IR  | N   | 50                                       | ±20             | 14                      | 42                      | ±500               | ±20             | 250              | 50              | 2.0                 | 4.0  | 0.25                                 | 0.12                | 10    | 8.7             | 14                 | 10    | 3.6             | 8.7   | 400*             | 260*             | 44*              | 25                                    | TO-251AA   |
| IRFR110  | IR  | N   | 100                                      | ±20             | 4.7                     | 30                      | ±500               | ±20             | 250              | 100             | 2.0                 | 4.0  | 0.25                                 | 0.54                | 10    | 3.3             | 4.7                | 10    | 1.3             | 3.3   | 180*             | 82*              | 15*              | 25                                    | TO-251AA   |
| IRFR111  | IR  | N   | 80                                       | ±20             | 4.7                     | 30                      | ±500               | ±20             | 250              | 80              | 2.0                 | 4.0  | 0.25                                 | 0.54                | 10    | 3.3             | 4.7                | 10    | 1.3             | 3.3   | 180*             | 82*              | 15*              | 25                                    | TO-251AA   |
| IRFR120  | IR  | N   | 100                                      | ±20             | 8.4                     | 50                      | ±500               | ±20             | 250              | 100             | 2.0                 | 4.0  | 0.25                                 | 0.27                | 10    | 5.9             | 8.4                | 10    | 2.8             | 5.9   | 350*             | 130*             | 24*              | 25                                    | TO-251AA   |
| IRFR121  | IR  | N   | 80                                       | ±20             | 8.4                     | 50                      | ±500               | ±20             | 250              | 80              | 2.0                 | 4.0  | 0.25                                 | 0.27                | 10    | 5.9             | 8.4                | 10    | 2.8             | 5.9   | 350*             | 130*             | 24*              | 25                                    | TO-251AA   |
| IRFR210  | IR  | N   | 200                                      | ±20             | 2.7                     | 25                      | ±500               | ±20             | 250              | 200             | 2.0                 | 4.0  | 0.25                                 | 1.5                 | 10    | 1.3             | 2.7                | 10    | 0.8             | 1.3   | 170*             | 64*              | 33*              | 25                                    | TO-251AA   |
| IRFR212  | IR  | N   | 200                                      | ±20             | 2.1                     | 25                      | ±500               | ±20             | 250              | 200             | 2.0                 | 4.0  | 0.25                                 | 2.4                 | 10    | 1.3             | 2.1                | 10    | 0.8             | 1.3   | 170*             | 64*              | 33*              | 25                                    | TO-251AA   |
| IRFR220  | IR  | N   | 200                                      | ±20             | 4.6                     | 42                      | ±500               | ±20             | 250              | 200             | 2.0                 | 4.0  | 0.25                                 | 0.80                | 10    | 2.4             | 4.6                | 10    | 1.7             | 2.4   | 330*             | 120*             | 41*              | 25                                    | TO-251AA   |
| IRFR222  | IR  | N   | 200                                      | ±20             | 3.8                     | 42                      | ±500               | ±20             | 250              | 200             | 2.0                 | 4.0  | 0.25                                 | 1.2                 | 10    | 2.4             | 3.8                | 10    | 1.7             | 2.4   | 330*             | 120*             | 41*              | 25                                    | TO-251AA   |
| IRFR9010 | IR  | P   | -50                                      | ±20             | -5.3                    | 25                      | ±500               | ±20             | -250             | -50             | -2.0                | -4.0 | -0.25                                | 0.50                | -10   | -2.8            | -5.3               | -10   | 1.1             | -2.8  | 240*             | 160*             | 30*              | -25                                   | TO-251AA   |
| IRFR9012 | IR  | P   | -50                                      | ±20             | -4.5                    | 25                      | ±500               | ±20             | -250             | -50             | -2.0                | -4.0 | -0.25                                | 0.70                | -10   | -2.8            | -4.5               | -10   | 1.1             | -2.8  | 240*             | 160*             | 30*              | -25                                   | TO-251AA   |
| IRFR9020 | IR  | P   | -50                                      | ±20             | -9.9                    | 42                      | ±500               | ±20             | -250             | -50             | -2.0                | -4.0 | -0.25                                | 0.28                | -10   | -5.7            | -9.9               | -10   | 2.3             | -5.7  | 490*             | 320*             | 70*              | -25                                   | TO-251AA   |
| IRFR9022 | IR  | P   | -50                                      | ±20             | -9.0                    | 42                      | ±500               | ±20             | -250             | -50             | -2.0                | -4.0 | -0.25                                | 0.33                | -10   | -5.7            | -9.0               | -10   | 2.3             | -5.7  | 490*             | 320*             | 70*              | -25                                   | TO-251AA   |
| IRFR9110 | IR  | P   | -100                                     | ±20             | -3.2                    | 25                      | ±500               | ±20             | -250             | -100            | -2.0                | -4.0 | -0.25                                | 1.2                 | -10   | -3.2            | -3.2               | -10   | 0.73            | -2.0  | 170*             | 82*              | 30*              | -25                                   | TO-251AA   |
| IRFR9111 | IR  | P   | -80                                      | ±20             | -3.2                    | 25                      | ±500               | ±20             | -250             | -80             | -2.0                | -4.0 | -0.25                                | 1.2                 | -10   | -3.2            | -3.2               | -10   | 0.73            | -2.0  | 170*             | 82*              | 30*              | -25                                   | TO-251AA   |
| IRFR9120 | IR  | P   | -100                                     | ±20             | -5.9                    | 42                      | ±500               | ±20             | -250             | -100            | -2.0                | -4.0 | -0.25                                | 0.60                | -10   | -3.7            | -5.9               | -10   | 1.5             | -3.7  | 320*             | 170*             | 58*              | -25                                   | TO-251AA   |
| IRFR9121 | IR  | P   | -80                                      | ±20             | -5.9                    | 42                      | ±500               | ±20             | -250             | -80             | -2.0                | -4.0 | -0.25                                | 0.60                | -10   | -3.7            | -5.9               | -10   | 1.5             | -3.7  | 320*             | 170*             | 58*              | -25                                   | TO-251AA   |
| IRFR9210 | IR  | P   | -200                                     | ±20             | -2.0                    | 25                      | ±500               | ±20             | -250             | -200            | -2.0                | -4.0 | -0.25                                | 3.0                 | -10   | -1.0            | -2.0               | -10   | 0.61            | -1.0  | 180*             | 53*              | 17*              | -25                                   | TO-251AA   |
| IRFR9212 | IR  | P   | -200                                     | ±20             | -1.6                    | 25                      | ±500               | ±20             | -250             | -200            | -2.0                | -4.0 | -0.25                                | 4.5                 | -10   | -1.0            | -1.6               | -10   | 0.61            | -1.0  | 180*             | 53*              | 17*              | -25                                   | TO-251AA   |
| IRFR9220 | IR  | P   | -200                                     | ±20             | -3.6                    | 42                      | ±500               | ±20             | -250             | -200            | -2.0                | -4.0 | -0.25                                | 1.5                 | -10   | -1.8            | -3.6               | -10   | 1.1             | -1.8  | 290*             | 110*             | 38*              | -25                                   | TO-251AA   |
| IRFR9222 | IR  | P   | -200                                     | ±20             | -2.8                    | 42                      | ±500               | ±20             | -250             | -200            | -2.0                | -4.0 | -0.25                                | 2.4                 | -10   | -1.8            | -2.8               | -10   | 1.1             | -1.8  | 290*             | 110*             | 38*              | -25                                   | TO-251AA   |
| IRFS170  | IR  | N   | 100                                      | ±20             | 0.9                     | 3.5                     | ±500               | ±20             | 250              | 100             | 2.0                 | 4.0  | 0.25                                 | 2.4                 | 10    | 0.45            | 0.9                | 10    | 0.25            | 0.25  | 70               | 30               | 10               | 25                                    | TO-243AA   |
| IRFS173  | IR  | N   | 60                                       | ±20             | 0.75                    | 3.5                     | ±500               | ±20             | 250              | 60              | 2.0                 | 4.0  | 0.25                                 | 3.2                 | 10    | 0.45            | 0.7                | 10    | 0.25            | 0.25  | 70               | 30               | 10               | 25                                    | TO-243AA   |
| IRFU010  | IR  | N   | 50                                       | ±20             | 8.2                     | 25                      | ±500               | ±20             | 250              | 50              | 2.0                 | 4.0  | 0.25                                 | 0.20                | 10    | 4.2             | 8.2                | 10    | 2.1             | 3.6   | 250*             | 150*             | 29*              | 25                                    | TO-251AA   |
| IRFU012  | IR  | N   | 50                                       | ±20             | 6.7                     | 25                      | ±500               | ±20             | 250              | 50              | 2.0                 | 4.0  | 0.25                                 | 0.30                | 10    | 4.2             | 6.7                | 10    | 2.1             | 3.6   | 250*             | 150*             | 29*              | 25                                    | TO-251AA   |

チャネルの \* は Pch と Nch の両方が入っていることを表す。