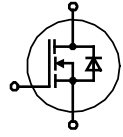


Q-Class HiPerFET™ with Fast Intrinsic Diode



| Part Type | V _{DSS} | I _{D(cont)} T _C = 25°C | R _{DS(on)} T _J = 25°C | C _{iss} typ. | Q _g typ. | t _{rr} | R _{thJC} | P _D | Fig. No. | Package style |
|--------------|------------------|---|--|--------------------------|------------------------|-----------------|-------------------|----------------|----------|--|
| ➤ New | V | A | Ω | F | nC | ns | K/W | W | | Outline drawings on pages O-30...O-52 |
| IXFA 4N100Q | 1000 | 4.0 | 3.000 | 1050 | 39.0 | 250 | 0.80 | 156 | X011b | X005a TO-220AB Weight = 4 g |
| IXFH 4N100Q | | 4.0 | 3.000 | 1050 | 39.0 | 250 | 0.80 | 156 | X014a | |
| IXFP 4N100Q | | 4.0 | 3.000 | 1050 | 39.0 | 250 | 0.80 | 156 | X005a | |
| IXFR 4N100Q | | 3.5 | 3.000 | 1050 | 39.0 | 200 | 1.57 | 80 | X016a | X011b TO-263AB Weight = 2 g |
| IXFT 4N100Q | | 4.0 | 3.000 | 1050 | 39.0 | 250 | 0.80 | 156 | X019 | |
| IXFH 6N100Q | | 6.0 | 2.000 | 2200 | 48.0 | 250 | 1.90 | 66 | X014a | |
| IXFT 6N100Q | | 6.0 | 2.000 | 2200 | 48.0 | 250 | 1.90 | 66 | X019 | X015a PLUS247 Weight = 5 g |
| IXFH 12N100Q | | 12.0 | 1.050 | 2900 | 90.0 | 200 | 0.42 | 300 | X014a | |
| IXFR 12N100Q | | 12.0 | 1.050 | 2900 | 90.0 | 200 | 0.50 | 250 | X016a | |
| IXFT 12N100Q | | 12.0 | 1.050 | 2900 | 90.0 | 200 | 0.42 | 300 | X019 | X014a TO-247AD Weight = 6 g |
| IXFH 15N100Q | | 15.0 | 0.700 | 4500 | 130.0 | 250 | 0.35 | 357 | X014a | |
| IXFK 15N100Q | | 15.0 | 0.700 | 4500 | 130.0 | 250 | 0.35 | 357 | X020a | |
| IXFT 15N100Q | | 15.0 | 0.700 | 4500 | 130.0 | 250 | 0.35 | 357 | X019 | X016a ISOPLUS247™ Weight = 5 g |
| IXFK 21N100Q | | 21.0 | 0.500 | 5900 | 170.0 | 250 | 0.26 | 481 | X020a | |
| IXFN 21N100Q | | 21.0 | 0.500 | 5900 | 170.0 | 250 | 0.24 | 521 | X027a | |
| IXFR 21N100Q | | 18.0 | 0.500 | 5900 | 170.0 | 250 | 0.30 | 417 | X016a | X015a |
| IXFX 21N100Q | | 21.0 | 0.500 | 5900 | 170.0 | 250 | 0.26 | 481 | X015a | |

Q2-Class HiPerFET™ with Fast Intrinsic Diode

Very High Speed

| Part Type | V _{DSS} | I _{D(cont)} T _C = 25°C | R _{DS(on)} T _J = 25°C | C _{iss} typ. | Q _g typ. | t _{rr} | R _{thJC} | P _D | Fig. No. | Package style |
|----------------|------------------|---|--|--------------------------|------------------------|-----------------|-------------------|----------------|----------|---|
| ➤ New | V | A | Ω | F | nC | ns | K/W | W | | Outline drawings on pages O-30...O-52 |
| IXFH 40N50Q2 | 500 | 40.0 | 0.160 | 4200 | 110.0 | 250 | 0.25 | 500 | X014a | X020a TO-264 Weight = 10 g |
| ➤ IXFK 40N50Q2 | | 40.0 | 0.160 | 4200 | 110.0 | 250 | 0.25 | 500 | X020a | |
| IXFR 40N50Q2 | | 29.0 | 0.170 | 4200 | 110.0 | 250 | 0.39 | 320 | X016a | X021a PLUS264 Weight = 10 g |
| IXFK 66N50Q2 | | 66.0 | 0.074 | 6800 | 199.0 | 250 | 0.17 | 735 | X020a | |
| IXFN 66N50Q2 | | 66.0 | 0.074 | 6800 | 199.0 | 250 | 0.17 | 735 | X027a | |
| IXFR 66N50Q2 | | 50.0 | 0.074 | 6800 | 199.0 | 250 | 0.30 | 416 | X016a | X022a ISOPLUS264 Weight = 6 g |
| IXFX 66N50Q2 | | 66.0 | 0.074 | 6800 | 199.0 | 250 | 0.17 | 735 | X015a | |
| IXFB 80N50Q2 | | 80.0 | 0.060 | 10500 | 260.0 | 250 | 0.14 | 890 | X021a | |
| IXFF 80N50Q2 | | 80.0 | 0.066 | 10500 | 260.0 | 250 | 0.33 | 380 | X024d | X024d ISOPLUS i4-PAC™ Weight = 6 g |
| IXFL 80N50Q2 | | 66.0 | 0.066 | 10500 | 260.0 | 250 | 0.33 | 380 | X022a | |
| IXFN 80N50Q2 | | 80.0 | 0.060 | 10500 | 260.0 | 250 | 0.14 | 890 | X027a | |
| IXFK 52N60Q2 | 600 | 52.0 | 0.115 | 6800 | 198.0 | 250 | 0.17 | 735 | X020a | X027a SOT-227B miniBLOC Weight = 30 g |
| IXFX 52N60Q2 | | 52.0 | 0.115 | 6800 | 198.0 | 250 | 0.17 | 735 | X015a | |
| IXFB 70N60Q2 | | 70.0 | 0.080 | 7200 | 265.0 | 250 | 0.14 | 890 | X021a | |
| IXFN 70N60Q2 | | 70.0 | 0.080 | 7200 | 265.0 | 250 | 0.14 | 890 | X027a | X027a |
| ➤ IXFK 38N80Q2 | 800 | 38.0 | 0.220 | 8340 | 190.0 | 250 | 0.17 | 735 | X020a | |
| IXFN 38N80Q2 | | 38.0 | 0.220 | 8340 | 190.0 | 250 | 0.17 | 735 | X027a | |
| IXFR 38N80Q2 | | 28.0 | 0.300 | 8340 | 190.0 | 250 | 0.30 | 416 | X016a | X027a |
| IXFX 38N80Q2 | | 38.0 | 0.220 | 8340 | 190.0 | 250 | 0.17 | 735 | X015a | |
| IXFB 50N80Q2 | | 50.0 | 0.150 | 7200 | 260.0 | 300 | 0.14 | 890 | X021a | |
| IXFN 50N80Q2 | | 50.0 | 0.150 | 7200 | 260.0 | 300 | 0.14 | 890 | X027a | X027a |
| IXFH 14N100Q2 | 1000 | 14.0 | 0.900 | 2800 | 83.0 | 250 | 0.31 | 400 | X014a | |
| IXFR 14N100Q2 | | 9.5 | 1.000 | 2700 | 83.0 | 250 | 0.62 | 200 | X016a | |
| IXFK 30N100Q2 | | 30.0 | 0.400 | 8200 | 186.0 | 250 | 0.17 | 735 | X020a | X027a |
| IXFX 30N100Q2 | | 30.0 | 0.400 | 8200 | 186.0 | 250 | 0.17 | 735 | X015a | |
| IXFB 38N100Q2 | | 38.0 | 0.280 | 12600 | 250.0 | 300 | 0.14 | 893 | X021a | |
| IXFL 38N100Q2 | | 22.0 | 0.280 | 12600 | 250.0 | 300 | 0.33 | 380 | X022a | X027a |
| IXFN 38N100Q2 | | 38.0 | 0.250 | 12600 | 250.0 | 300 | 0.14 | 893 | X027a | |