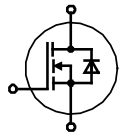
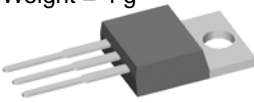
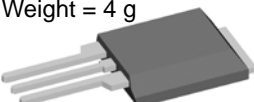
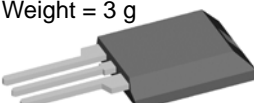



Trench Gate Power MOSFETs



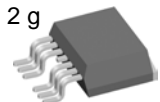
Very Low $R_{DS(on)}$

| Part Type | V_{DSS} | $I_{D(cont)}$ $T_C = 25^\circ C$ | $R_{DS(on)}$ $T_C = 25^\circ C$ | C_{iss} typ. | Q_g typ. | t_{rr} typ. | R_{thJC} | P_D | Fig. No. | Package style Outline drawings on pages O-30...O-52 |
|-----------------|-----------|-------------------------------------|------------------------------------|-------------------|---------------|------------------|------------|-------|--|--|
| ➤ New | V | A | Ω | pF | nC | ns | K/W | W | | |
| ➤ IXTQ 86N20T | 200 | 86 | 0.029 | 4500 | 90 | 140 | 0.31 | 480 | X017a | X005a TO-220AB Weight = 4 g  |
| ➤ IXTH 102N20T | | 102 | 0.022 | 6800 | 114 | 130 | 0.20 | 750 | X014a | |
| ➤ IXTQ 102N20T | | 102 | 0.022 | 6800 | 114 | 130 | 0.20 | 750 | X017a | |
| ➤ IXTV 102N20T | | 102 | 0.022 | 6800 | 114 | 130 | 0.20 | 750 | X009a | |
| ➤ IXTV 102N20TS | | 102 | 0.022 | 6800 | 114 | 130 | 0.20 | 750 | X013 | |
| ➤ IXTH 130N20T | | 130 | 0.016 | 8800 | 150 | 150 | 0.18 | 830 | X014a | |
| ➤ IXTV 130N20TS | | 130 | 0.016 | 8800 | 150 | 150 | 0.15 | 530 | X013 | |
| ➤ IXTA 50N25T | 250 | 50 | 0.050 | 4000 | 78 | 166 | 0.31 | 400 | X011b | X009a PLUS220 Weight = 4 g  |
| ➤ IXTH 50N25T | | 50 | 0.050 | 4000 | 78 | 166 | 0.31 | 400 | X014a | |
| ➤ IXTP 50N25T | | 50 | 0.050 | 4000 | 78 | 166 | 0.31 | 400 | X005a | |
| ➤ IXTQ 50N25T | | 50 | 0.050 | 4000 | 78 | 166 | 0.31 | 400 | X017a | |
| ➤ IXTC 110N25T | | 53 | 0.026 | 9300 | 152 | 200 | 0.69 | 180 | X010a | |
| ➤ IXTA 76N25T | | 76 | 0.039 | 4500 | 92 | 148 | 0.27 | 460 | X011b | |
| ➤ IXTH 76N25T | | 76 | 0.039 | 4500 | 92 | 148 | 0.27 | 460 | X014a | |
| ➤ IXTP 76N25T | 76 | 0.039 | 4500 | 92 | 148 | 0.27 | 460 | X005a | | |
| ➤ IXTQ 76N25T | 76 | 0.039 | 4500 | 92 | 148 | 0.27 | 460 | X017a | | |
| ➤ IXTH 86N25T | 86 | 0.036 | 5330 | 105 | 156 | 0.23 | 540 | X014a | X010a ISOPLUS220™ Weight = 3 g  | |
| ➤ IXTQ 86N25T | 86 | 0.036 | 5330 | 105 | 156 | 0.23 | 540 | X017a | | |
| ➤ IXTV 86N25T | 86 | 0.036 | 5330 | 105 | 156 | 0.23 | 540 | X009a | | |
| ➤ IXTH 96N25T | 96 | 0.029 | 6100 | 114 | 158 | 0.20 | 625 | X014a | | |
| ➤ IXTQ 96N25T | 96 | 0.029 | 6100 | 114 | 158 | 0.20 | 625 | X017a | | |
| ➤ IXTV 96N25T | 96 | 0.029 | 6100 | 114 | 158 | 0.20 | 625 | X009a | | |
| ➤ IXTH 110N25T | 110 | 0.024 | 8700 | 157 | 170 | 0.18 | 694 | X014a | | |
| ➤ IXTV 110N25TS | 110 | 0.024 | 8700 | 157 | 170 | 0.18 | 694 | X013 | | |
| ➤ IXTA 50N28T | 280 | 50 | 0.060 | 4070 | 87 | 180 | 0.37 | 340 | X011b | X011b TO-263AB Weight = 2 g  |
| ➤ IXTQ 80N28T | | 80 | 0.049 | 5000 | 115 | | 0.25 | 500 | X017a | |

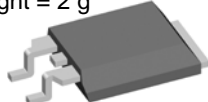
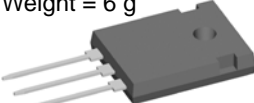
X011b **TO-263AB**
Weight = 2 g



X012c **TO-263(6)**
Weight = 2 g



TrenchT2™ Power MOSFETs

| Part Type | V_{DSS} | $I_{D(cont)}$ $T_C = 25^\circ C$ | $R_{DS(on)}$ $T_J = 25^\circ C$ | C_{iss} typ. | Q_g typ. | t_{rr} typ. | R_{thJC} | P_D | Fig. No. | Package style Outline drawings on pages O-30...O-52 |
|-------------------|-----------|-------------------------------------|------------------------------------|-------------------|---------------|------------------|------------|-------|----------|---|
| ➤ New | V | A | Ω | pF | nC | ns | K/W | W | | |
| ➤ IXTA 100N04T2 | 40 | 100 | 0.0070 | 2690 | 25.5 | 34 | 1.00 | 150 | X011b | X013 PLUS220SMD Weight = 2 g  |
| ➤ IXTP 100N04T2 | | 100 | 0.0070 | 2690 | 25.5 | 34 | 1.00 | 150 | X005a | |
| ➤ IXTA 120N04T2 | | 120 | 0.0061 | 3240 | 58.0 | 35 | 0.75 | 200 | X011b | |
| ➤ IXTP 120N04T2 | | 120 | 0.0061 | 3240 | 58.0 | 35 | 0.75 | 200 | X005a | |
| ➤ IXTA 220N04T2 | | 220 | 0.0035 | 6500 | 112.0 | 45 | 0.42 | 360 | X011b | |
| ➤ IXTP 220N04T2 | | 220 | 0.0035 | 6500 | 112.0 | 45 | 0.42 | 360 | X005a | |
| ➤ IXTA 220N04T2-7 | | 220 | 0.0035 | 6820 | 112.0 | 45 | 0.42 | 360 | X012c | |
| ➤ IXTA 90N055T2 | 55 | 90 | 0.0084 | 2670 | 42.0 | 37 | 1.00 | 150 | X011b | X014a TO-247AD Weight = 6 g  |
| ➤ IXTP 90N055T2 | | 90 | 0.0084 | 2670 | 42.0 | 37 | 1.00 | 150 | X005a | |
| ➤ IXTA 110N055T2 | | 110 | 0.0066 | 3060 | 57.0 | 38 | 0.82 | 180 | X011b | |
| ➤ IXTP 110N055T2 | | 110 | 0.0066 | 3060 | 57.0 | 38 | 0.82 | 180 | X005a | |
| ➤ IXTA 200N055T2 | | 200 | 0.0042 | 6800 | 109.0 | 49 | 0.42 | 360 | X011b | |
| ➤ IXTP 200N055T2 | | 200 | 0.0042 | 6800 | 109.0 | 49 | 0.42 | 360 | X005a | |
| ➤ IXTA 70N075T2 | | 75 | 70 | 0.012 | 2580 | 46.0 | 48 | 1.00 | 150 | |
| ➤ IXTP 70N075T2 | 70 | | 0.012 | 2580 | 46.0 | 48 | 1.00 | 150 | X005a | |
| ➤ IXTA 90N075T2 | 90 | | 0.010 | 3100 | 54.0 | 50 | 0.50 | 180 | X011b | |
| ➤ IXTP 90N075T2 | 90 | | 0.010 | 3100 | 54.0 | 50 | 0.50 | 180 | X005a | |
| ➤ IXTA 170N075T2 | 170 | | 0.0054 | 6500 | 110.0 | 52 | 0.42 | 360 | X011b | |
| ➤ IXTP 170N075T2 | 170 | | 0.0054 | 6500 | 110.0 | 52 | 0.42 | 360 | X005a | |