





# BiMOSFETs (Monolithic Bipolar MOS Transistors)

## Reverse Conducting IGBTs (BiMOSFET™) 3 kV - 3.6 kV

| Type                 | V <sub>CES</sub> | I <sub>C25</sub><br>T <sub>C</sub> = 25°C | I <sub>C90</sub><br>T <sub>C</sub> = 90°C<br>(110°C) | V <sub>CE(sat)</sub><br>typ<br>T <sub>C</sub> = 25°C | Q <sub>G</sub><br>typ | t <sub>f</sub> (t <sub>fi</sub> )<br>typ<br>T <sub>C</sub> = 125°C | R <sub>thJC</sub><br>max. | Fig. No. | Package style  |  |
|----------------------|------------------|---|--|--|-----------------------|--|---------------------------|----------|--|--|
| ➤ New                | V                | A   | A  | V  | nC                    | ns   | K/W                       |          | Outline drawings on pages O-36...O-59  |  |
| <b>IXBF 14N300</b>   | 3000             | 28  | 14   | 2.2  | 62                    | 1730   | 1.04                      | X024c    | <br>X011c <b>TO-263ABHV</b> |  |
| <b>IXBH 10N300</b>   |                  | 30  | (10)   | 2.8  | 45                    | 1030   | 0.69                      | X014a    |  |  |
| <b>IXBA 10N300HV</b> |                  | 34  | (10)   | 2.2  | 46                    | 2010   | 0.69                      | X011c    |  |  |
| <b>IXBH 10N300HV</b> |                  | 34  | (10)   | 2.2  | 46                    | 2010   | 0.69                      | X014c    |  |  |
| <b>IXBF 22N300</b>   |                  | 38  | 22   | 2.2  | 110                   | 1650   | 0.83                      | X024c    |  |  |
| <b>IXBA 14N300HV</b> |                  | 38  | (14)   | 2.2  | 62                    | 1730   | 0.62                      | X011c    |  |  |
| <b>IXBH 14N300HV</b> |                  | 38  | (14)   | 2.2  | 62                    | 1730   | 0.62                      | X014c    |  |  |
| <b>IXBF 32N300</b>   |                  | 40  | 22   | 2.8  | 142                   | 630  | 0.78                      | X024c    |  |  |
| <b>IXBF 28N300</b>   |                  | 50  | 28   | 2.3  | 110                   | 3280   | 0.58                      | X024c    |  | <br>X014a <b>TO-247AD</b> |
| <b>IXBF 42N300</b>   |                  | 60  | (24)   | 2.5  | 200                   | 490  | 0.52                      | X024c    |  |  |
| <b>IXBT 22N300HV</b> |                  | 60  | (22)   | 2.2  | 110                   | 1650   | 0.43                      | X019a    |  |  |
| <b>IXBH 22N300HV</b> |                  | 60  | (22)   | 2.2  | 110                   | 1650   | 0.43                      | X014c    |  |  |
| <b>IXBX 28N300HV</b> |                  | 62  | (28)   | 2.3  | 110                   | 3280   | 0.36                      | X015c    |  |  |
| <b>IXBH 32N300</b>   |                  | 80  | (32)   | 2.8  | 142                   | 630  | 0.31                      | X014a    |  |  |
| <b>IXBH 32N300HV</b> |                  | 80  | (32)   | 2.8  | 142                   | 630  | 0.31                      | X014c    |  |  |
| <b>IXBT 32N300HV</b> |                  | 80  | (32)   | 2.8  | 142                   | 630  | 0.31                      | X019a    |  |  |
| <b>IXBF 55N300</b>   |                  | 86  | (34)   | 2.7  | 335                   | 260  | 0.35                      | X024c    |  |  |
| <b>IXBH 42N300HV</b> |                  | 104                                       | (42)   | 2.5  | 200                   | 490  | 0.25                      | X014c    | <br>X014c <b>TO-247HV</b> |  |
| <b>IXBT 42N300HV</b> |                  | 104                                       | (42)   | 2.5  | 200                   | 490  | 0.25                      | X019a    |  |  |
| <b>IXBK 55N300</b>   |                  | 130                                       | (55)   | 2.7  | 335                   | 260  | 0.20                      | X020a    |  |  |
| <b>IXBX 55N300</b>   |                  | 130                                       | (55)   | 2.7  | 335                   | 260  | 0.20                      | X015a    |  |  |
| <b>IXBF 16N360</b>   | 3600             | 26  | 16   | 2.5  | 65                    | 115  | 1.00                      | X024c    |  |  |
| <b>IXBF 20N360</b>   |                  | 45  | (18)   | 2.9  | 110                   | 1100   | 0.54                      | X024c    |  |  |
| <b>IXBH 16N360HV</b> |                  | 48  | (16)   | 2.5  | 65                    | 115  | 0.46                      | X014c    |  |  |
| <b>IXBT 16N360HV</b> |                  | 48  | (16)   | 2.5  | 65                    | 115  | 0.46                      | X019a    | <br>X015a <b>PLUS247</b>  |  |
| <b>IXBH 20N360HV</b> |                  | 70  | (20)   | 2.9  | 110                   | 1100   | 0.29                      | X014c    |  |  |
| <b>IXBT 20N360HV</b> |                  | 70  | (20)   | 2.9  | 110                   | 1100   | 0.29                      | X019a    |  |  |
| <b>IXBF 50N360</b>   |                  | 70  | (28)   | 2.4  | 210                   | 1670   | 0.43                      | X024c    |  |  |
| <b>IXBL 60N360</b>   |                  | 92  | (36)   | 2.8  | 450                   | 1025   | 0.30                      | X022e    |  |  |
| <b>IXBX 50N360HV</b> |                  | 125                                       | (50)   | 2.4  | 210                   | 1670   | 0.19                      | X015c    |  |  |

X020a **TO-264**



X019a **TO-268AAHV**



X015c **PLUS247HV**



X024c **ISOPLUS i4-PAC™**



X022e **ISOPLUS264™**

