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many factors drive the selection of right igbt for the application robustness soa uis short circuit transient conditions thermal capability t_{jmax} Δt switching frequency diode performance igbt modules are designed to provide efficient high speed and high power energy conversion in a variety of applications they are essential components in applications such as motor control power supplies and power inverters igbt modules are configurationally grouped into four types 1 in 1 2 in 1 6 in 1 and pim 7 in 1 a circuit configuration is prescribed for each of these types a summary description of the features of each type is also included in the figure to aid you in your device selection application note is intended to provide an explanation of the parameters and diagrams given in the datasheet of industrial igbt modules with the application note the designer of power electronic systems requiring an igbt module is able to use the datasheet in a proper way and will be provided with background information proliferation of high performance power conversion equipment in applications such as solar inverters ups motor drives inductive heating welding automotive and traction has rekindled the interest in understanding and optimizing igbt characteristics in order to optimize the system performances igbt is the short form of insulated gate bipolar transistor it is a three terminal semiconductor switching device that can be used for fast switching with high efficiency in many types of electronic devices

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