

## General Considerations For IGBT And Intelligent Power Modules

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General requirements for a half bridge IGBT gate driver include; 1. A high side gate driver for the floating N-channel IGBT 2. Symmetrical switching of low and high side devices 3. Avoidance of cross conduction 4.

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### GENERAL CONSIDERATIONS FOR IGBT AND

INTELLIGENT POWER MODULES CM (1) 100 (2) D (4) 24 (6)

– CM100DY-24H is a 100 Ampere, 1200 Volt, Dual IGBT Module  
Devices: CM = IGBT Module PM = IPM Current Rating IC  
(Amperes) For IPM: H = Single D = Dual C = Six in one R = Seven  
in one IGBT Module: H =

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### General Considerations For IGBT And GENERAL

CONSIDERATIONS FOR IGBT AND INTELLIGENT POWER

MODULES CM (1) 100 (2) D (4) 24 (6) – CM100DY-24H is a 100

Ampere, 1200 Volt, Dual IGBT Module Devices: CM = IGBT  
Module PM = IPM Current Rating IC (Amperes) For IPM: H =  
Single D = Dual C = Six in one R = Seven in one IGBT Module: H =  
=

## ~~General Considerations For IGBT And Intelligent Power Modules~~

Due to the fairly ruggedised features of the IGBT they normally have around a 10us short-circuit capability and a higher voltage rating which makes them a lot easier to protect. The MOSFET particularly due to their lower current density cannot handle short-circuit for very long, probably only around 1us.

## ~~IGBT and MOSFET Desaturation Protection~~

The insulated gate bipolar transistor (IGBT) represents the most commercially advanced device of a new family of power semiconductor devices synergizing high-input impedance MOS-gate control with low forward-voltage drop bipolar current

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conduction. It reduces the size and complexity of

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Access PDF General Considerations For IGBT And Intelligent Power Modules General Considerations For IGBT And Intelligent Power Modules General design considerations High voltage IGBT devices are penalised by their inherent high on-state resistance in comparison with their thyristor counterparts. Consequently, careful optimisation of the conduction and

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voltage and LTDS-PDF: 106KB: Oct. 2014: IGBT Modules T/T1 Series: PDF: PDF: 2.17MB: Feb. 2019: IGBT Modules T/T1 Series Pressfit: PDF: PDF: 592KB: Feb. 2018: IGBT Modules

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Consequently, careful optimisation of the conduction and transient losses is required to produce an efficient 6.5 kV IGBT. There are three main considerations in this optimisation: the 1D or starting Silicon specification, the 2D or basic cell processing technology and topology, and finally the collector design.

~~Design considerations for 6.5 kV IGBT devices—ScienceDirect~~  
MOS Components of IGBT Abstract: General Considerations. MOS Structure Analysis and Threshold Voltage. Current-Voltage Characteristics of MOSFET; Transconductance and Drain Resistance. On-Resistance Model of DMOSFET and UMOSFET. MOSFET Equivalent Circuit and Switching Times.

~~MOS Components of IGBT—Wiley IEEE Press books~~  
Abstract and Figures IGBT are the predominant power semiconductors for high current applications in electrical and hybrid vehicles applications. Applications with low switching frequencies (<20...

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Load, Switch, and Commutation Considerations Power switching devices are employed for controlling inductive, resistive or capacitive loads. Inductive loads include electrical machines, transformers, solenoids, and relays. High-current in-rush occurs with loads such as incandescent lamps, pulse-forming networks, snubbers, and motors.

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Today's high power IGBT modules with the typical footprint of 140mm x 190mm in single switch configuration reaches or has reached its limits. New fast switching chipsets like the 1700V SPT++ IGBT [2] or even 3300V SPT+ IGBT, that allow switching with low losses require low commutation loop stray inductance to keep the voltage overshoot small [3]. If this holds true for silicon-based IGBTs, obviously SiC switches are no more useable in standard IGBT modules like 140mm x 190mm modules or ...

~~LinPak, the Standard Expands to 3300V and Shows Excellent ...~~  
IGBT drives have faster output voltage risetimes which have increased the dielectric voltage stress placed on the motor. Semiconductor risetime now has a greater influence on motor transient...

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