

半控整流+制动新突破，IGBT模块为伺服变频大电流赋能



产品介绍

扬杰科技推出基于传统Econo2封装的半控整流+制动电路结构的特殊拓扑模块，该模块的特殊拓扑结构，适用于伺服变频器应用的单直流电源+多轴输出的经济型控制结构，为系统的经济性和紧凑型设计需求提供了优异的解决方案。

产品采用的IGBT芯片基于新一代精细化沟槽工艺平台，极大的优化了器件的导通压降。模块采用DBC绝缘铜底板技术，绝缘性能好，导热性强，机械结构强，具有优异的散热性能。

- 1.半控整流+制动的特殊拓扑结构；
- 2.高性能GPP晶圆搭配晶闸管整流桥芯片方案；
- 3.具备强浪涌能力；
- 4.使用DBC绝缘铜底板，具有优异散热性能；
- 5.紧凑型封装；

产品特点

更多产品详见官网

Product Name	V_{RRM} (V)	I_F (A)	$I_{F(SM)}$ (A)		V_F (V)	di/dt (A/us)	dv/dt (V/us)	V_{ces} (V)	I_c (A)	$V_{CE(sat)}$ (V)	
			25°C	150°C						25°C	150°C
MG160TB16E1	1600	160	1550	1300	1.15	100	1000	1200	100	1.85	2.15



伺服控制器



变频器

典型应用

IGBT for Servo Controllers and Frequency Converter, with High Current Half-controlled and Braking Capability



Product Introduction

Yangjie Technology has launched a special topology module based on the traditional Econo2 packaging semi-controlled rectifier + braking circuit structure. The special topology structure of this module is suitable for the economic control structure of single DC power supply + multi-axis output in servo frequency converter applications, providing a perfect solution for the economic and compact design requirements of the system.

The IGBT chip adopted by the product is based on the new generation of refined trench process platform, which greatly optimizes the on-state voltage drop of the device. The module adopts DBC insulated copper base plate technology, featuring excellent insulation performance, strong thermal conductivity, strong mechanical structure and outstanding heat dissipation performance.

New Product Announcement

1. Special topological structure of semi-controlled rectification + braking;
2. High-performance GPP wafer combined with thyristor rectifier bridge chip solution;
3. Possess strong surge capability;
4. It uses DBC insulated copper base plate, which has excellent heat dissipation performance;
5. Compact packaging;

Product Features

Product Name	V _{RRM} (V)	I _F (A)	I _{FSM} (A)		V _F (V)	di/dt (A/us)	dv/dt (V/us)	V _{ces} (V)	I _c (A)	V _{CE(sat)} (V)	
			25°C	150°C						25°C	150°C
MG160TB16E1	1600	160	1550	1300	1.15	100	1000	1200	100	1.85	2.15

Please refer to the official website for more products



Servo Controller



Frequency Converter

Application