

Data Sheet EB01-FS150R12KE3G

Basic Board for Infineon EconoPACK+ Modules FS150R12KE3G

Abstract

The EB01-FS150R12KE3G is a basic board to be used with six-channel driver 6SD312EI for reliable driving and safe operation of Infineon IGBT modules FS150R12KE3G.

The basic board EB01-FS150R12KE3G (with driver 6SD312EI) is fully matched to IGBT module FS150R12KE3G. Its plug-and-play capability makes it ready to operate immediately after mounting. The user needs invest no effort in designing or adjusting it to a specific application.

Product Highlights

- ✓ Plug-and-play solution
- ✓ Suitable for FS150R12KE3G
- ✓ No electrolytic capacitors
- ✓ Extremely reliable; long service life
- ✓ Shortens application development time

Applications

- ✓ Three-phase inverters
- ✓ Motor drives
- ✓ UPS
- ✓ Power-factor correctors
- ✓ Wind-power converters
- ✓ Welding
- ✓ SMPS
- ✓ and many others

Basic Board Data Sheet

Important: Please refer to the relevant manuals!

This data sheet contains only product-specific data for the basic board. Information specific to the relevant driver can be found in the corresponding data sheet.

A detailed description, must-read application notes and general data applicable to this driver family are found in: "Description and Application Manual, Six-Channel Driver 6SD312EI for the EconoPACK+ Modules".

Dimensions

Dimensions: 162 x 100 mm.

Height including driver: 21 mm (30 mm with connector X1 and flat cable).

Mounting principle: soldered onto an EconoPACK+ IGBT module FS150R12KE3G.

Absolute Maximum Ratings

Parameter	Remarks	Min	Max	Units
Input power per channel	Note 1		3	W
Switching frequency	Note 2		69	kHz
DC link voltage	Note 3		800	V
Operating temperature		-40	+85	°C
Storage temperature		-40	+90	°C

All data refer to +25°C unless otherwise specified

Electrical Characteristics

Short-circuit protection	Remarks	Min	Typ.	Max	Units
V _{ce} -monitoring threshold	Betw. aux. terminals		3.4		V
Response time	Note 4		10		µs
Gate output	Remarks	Min	Typ.	Max	Units
Turn-on gate resistor R _{g(on)}			8.2		Ω
Turn-off gate resistor R _{g(off)}			10		Ω
Electrical insulation	Test conditions	Min	Typ.	Max	Units
Creep path between channels			9		mm

All data refer to +25°C unless otherwise specified

Footnotes to the key data

- 1) The input power is limited by the on-board gate resistors.
- 2) If the specified max. switching frequency is exceeded, the gate resistors may overheat.
- 3) This limit is due to active clamping. Refer to the "Description and Application Manual, Six-Channel Driver 6SD312EI for the EconoPACK+ Modules".
- 4) Pulse width of the direct output of the gate drive unit (excluding the gate-resistor delay).

Basic Board Data Sheet

Important Notice

The data contained in this product data sheet is intended exclusively for technically trained staff. Handling all high-voltage equipment involves risk to life. Strict compliance with the respective safety regulations is mandatory!

Any handling of electronic devices is subject to the general specifications for protecting electrostatic-sensitive devices according to international standard IEC 747-1, Chapter IX or European standard EN 100015 (i.e. the workplace, tools, etc. must comply with these standards). Otherwise, this product may be damaged.

Disclaimer

This data sheet specifies devices but cannot promise to deliver any specific characteristics. No warranty or guarantee is given – either expressly or implicitly – regarding delivery, performance or suitability.

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Ordering Information

The general terms and conditions of delivery of CT-Concept Technologie AG apply.

Related IGBT	CONCEPT Driver Type #
Infineon (eupec) FS150R12KE3G	6SD312EI
Connection	CONCEPT Modular Cable Type #
6SD312EI to EB01-FS150R12KE3G	MIC01A (6 items per driver)
Related IGBT	CONCEPT Basic Board Type #
Infineon (eupec) FS150R12KE3G	EB01-FS150R12KE3G

Information about Other Products

For drivers adapted to other high-voltage or high-power IGBT modules

Direct link: www.IGBT-Driver.com/go/plug-and-play

For other drivers and evaluation systems

Please click: www.IGBT-Driver.com

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