## Energy Tes

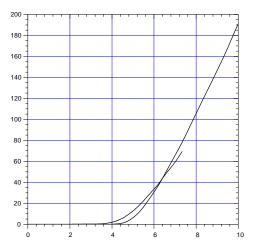
FGW75N65WE Discrete IGBT

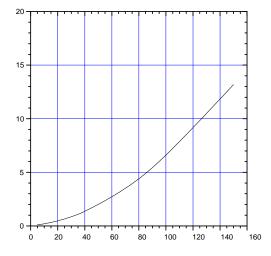
http://www.fujielectric.com/products/semiconductor/

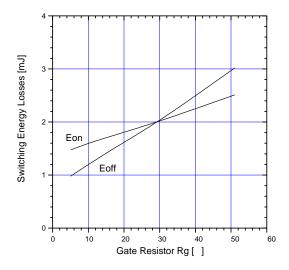
## Thermal Resistance

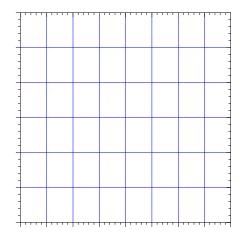
Description	Symbol	min.	typ.	max.	Unit
Thermal Resistance, Junction-Ambient	R <sub>th(j-a)</sub>	-	-	50	°C/W
Thermal Resistance, IGBT Junction to Case	R <sub>th(j-c)_IGBT</sub>	-	-	0.286	°C/W
Thermal Resistance, FWD Junction to Case	R <sub>th(j-c)_FWD</sub>	-	-	0.568	°C/W

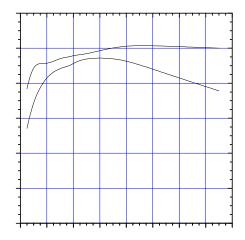
■ Characteristics (Representative)

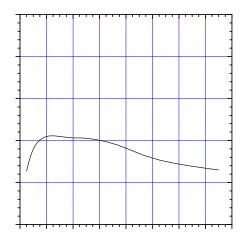


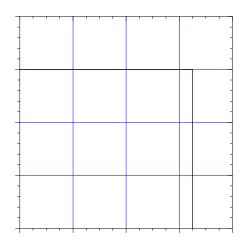


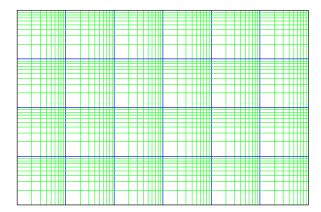


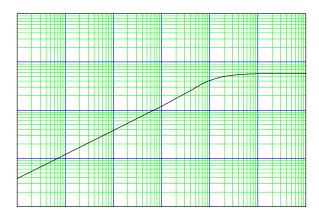






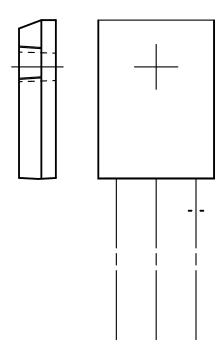






Outline Drawings, mm





## **WARNING**

- 1. This Catalog contains the product specifications, characteristics, data, materials, and structures as of January 2018.

  The contents are subject to change without notice for specification changes or other reasons. When using a product listed in this Catalog, be sur to obtain the latest specifications.
- 2. All applications described in this Catalog exemplify the use of Fuji's products for your reference only. No right or license, either express or implied, under any patent, copyright, trade secret or other intellectual property right owned by Fuji Electric Co., Ltd. is (or shall be deemed) granted. Fuji Electric Co., Ltd. makes no representation or warranty, whether express or implied, relating to the infringement or alleged infringement of other's intellectual property rights which may arise from the use of the applications described herein.
- 3. Although Fuji Electric Co., Ltd. is enhancing product quality and reliability, a small percentage of semiconductor products may become faulty. When using Fuji Electric semiconductor products in your equipment, you are requested to take adequate safety measures to prevent the equipment from causing a physical injury, fre, or other problem if any of the products become faulty. It is recommended to make your design failsafe, fame retardant, and free of malfunction.
- 4. The products introduced in this Catalog are intended for use in the following electronic and electrical equipment which has normal reliability requirements.
- Computers
- OA equipment
- Communications equipment (terminal devices)
- Measurement equipment

- Machine tools
- Audiovisual equipment
- Electrical home appliances
- Personal equipment 
   Industrial robots etc.
- 5. If you need to use a product in this Catalog for equipment requiring higher reliability than normal, such as for the equipment listed below, it is imperative to contact Fuji Electric Co., Ltd. to obtain prior approval. When using these products for such equipment, take adequate measures such as a backup system to prevent the equipment from malfunctioning even if a Fuji's product incorporated in the equipment becomes faulty.
- Transportation equipment (mounted on cars and ships)
- Traffc-signal control equipment
- Emergency equipment for responding to disasters and anti-burglary devices
- Medical equipment

- Trunk communications equipment
- Gas leakage detectors with an auto-shut-off feature
- Safety devices
- 6. Do not use products in this Catalog for the equipment requiring strict reliability such as the following and equivalents to strategic equipment (without limitation).
- Space equipmentSubmarine repeater equipment
- Aeronautic equipment
- Nuclear control equipment
- 7. Copyright ©1996-2018 by Fuji Electric Co., Ltd. All rights reserved.

No part of this Catalog may be reproduced in any form or by any means without the express permission of Fuji Electric Co., Ltd.

8. If you have any question about any portion in this Catalog, ask Fuji Electric Co., Ltd. or its sales agents before using the product.

Neither Fuji Electric Co., Ltd. nor its agents shall be liable for any injury caused by any use of the products not in accordance with instructions set forth herein.



8 产品咨询

9 产品更改和停产信息

## **Technical Information**

**IGBT Modules** 

- Please refer to URLs below for futher information about products, application manuals and design support.
- ●关于本规格书中没有记载的产品信息,应用手册,技术信息等,请参考以下链接。
- ●本データシートに記載されていない製品情報,アプリケーションマニュアル,デザインサポートは以下のURLをご参照下さい。

FUJI ELECTRIC Power Semico	onductor WEB site		
日本	www.fujielectric.co.jp/products/semiconductor/		
Global	www.fujielectric.com/products/semiconductor/		
中国	www.fujielectric.com.cn/products/semiconductor/		
Europe	www.fujielectric-europe.com/en/power_semiconductor/		
North America	www.americas.fujielectric.com/products/semiconductors/		
Information			
日本			
1 半導体総合カタログ	www.fujielectric.co.jp/products/semiconductor/catalog/		
2 製品情報	www.fujielectric.co.jp/products/semiconductor/model/		
3 アプリケーションマニュアル	www.fujielectric.co.jp/products/semiconductor/model/igbt/application/		
4 デザインサポート	www.fujielectric.co.jp/products/semiconductor/model/igbt/technical/		
5 マウンティングインストラクション	www.fujielectric.co.jp/products/semiconductor/model/igbt/mounting/		
6 IGBT 損失シミュレーションソフト	www.fujielectric.co.jp/products/semiconductor/model/igbt/simulation/		
7 富士電機技報	www.fujielectric.co.jp/products/semiconductor/journal/		
8 製品のお問い合わせ	www.fujielectric.co.jp/products/semiconductor/contact/		
9 改廃のお知らせ	www.fujielectric.co.jp/products/semiconductor/discontinued/		
Global			
1 Semiconductors General Catalog	www.fujielectric.com/products/semiconductor/catalog/		
2 Product Information	www.fujielectric.com/products/semiconductor/model/		
3 Application Manuals	www.fujielectric.com/products/semiconductor/model/igbt/application/		
4 Design Support	www.fujielectric.com/products/semiconductor/model/igbt/technical/		
5 Mounting Instructions	www.fujielectric.com/products/semiconductor/model/igbt/mounting/		
6 IGBT Loss Simulation Software	www.fujielectric.com/products/semiconductor/model/igbt/simulation/		
7 Fuji Electric Journal	www.fujielectric.com/products/semiconductor/journal/		
8 Contact	www.fujielectric.com/contact/		
9 Revised and discontinued product information	www.fujielectric.com/products/semiconductor/discontinued/		
中国			
1 半导体综合目录	www.fujielectric.com.cn/products/semiconductor/catalog/		
2 产品信息	www.fujielectric.com.cn/products/semiconductor/model/		
3 应用手册	www.fujielectric.com.cn/products/semiconductor/model/igbt/application/		
4 技术信息	www.fujielectric.com.cn/products/semiconductor/model/igbt/technical/		
5 安装说明书	www.fujielectric.com.cn/products/semiconductor/model/igbt/mounting/		
6 IGBT 损耗模拟软件	www.fujielectric.com.cn/products/semiconductor/model/igbt/simulation/		
7 富士电机技报	www.fujielectric.com.cn/products/semiconductor/journal/		

www.fujielectric.com/contact/

www.fujielectric.com.cn/products/semiconductor/discontinued/