Safe operating area: RBSOA and SCSCOA

Device: 4MBI300VG-120R1-50
Package: M403
Measured condition: $T_j=125^\circ\text{C}$, $V_{ge}=+15\text{V}/-15\text{V}$, $R_g \geq$ recommended in datasheet

The data below shows the reverse bias safe operating area (RBSOA) and short circuit safe operating area (SCSCOA). Within the RBSOA the IGBT can be switched off repetitive. Within the SCSCOA the IGBT can be switched off in the case of a short circuit only, no repetitive operation.
1. This Catalog contains the product specifications, characteristics, data, materials, and structures as of September 2013. The contents are subject to change without notice for specification changes or other reason. When using a product listed in this Catalog, be sure to obtain the latest specifications.

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4. The products introduced in this Catalog are intended for use in the following electronic and electrical equipment which has normal reliability requirements.
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   • 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.
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   • Traffic-signal control equipment  • Gas leakage detectors with an auto-shut-off feature
   • Emergency equipment for responding to disasters and anti-burglary devices  • Safety devices
   • Medical equipment

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