

# **40A, 1200V IGBT MODULE**

# 1.DESCRIPTION

SGM40PA12A6TFD Module offers the optimum performance for Auxiliary Inverters, Air Conditioning and Motor Drives.

# 2.FEATURES

- ◆ 40A, 1200V, V<sub>CE(sat)(typ.)</sub> =2.3V@I<sub>C</sub>=40A
- V<sub>CE(sat)</sub> with positive temperature coefficient
- · High short circuit capability
- Low switching loss
- Isolated using DBC technology
- With NTC

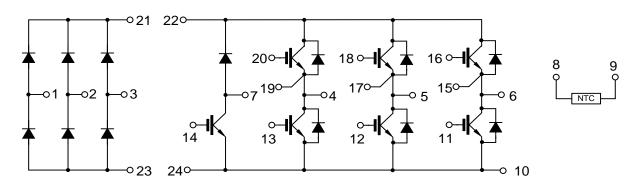


Α6

# **3.ORDERING INFORMATION**

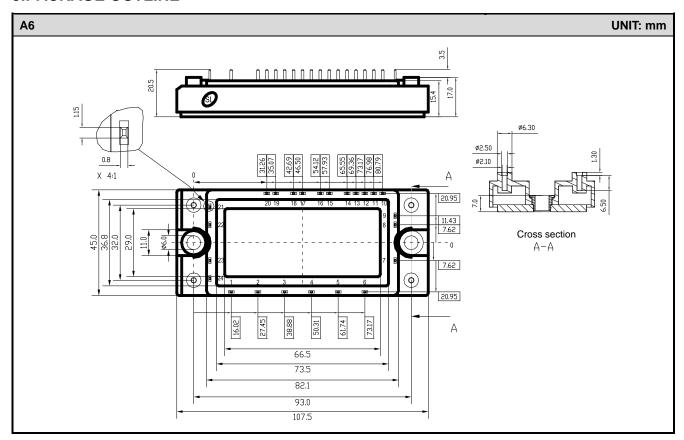
Part No.	Package	Marking	Packing Type
SGM40PA12A6TFD	A6	SGM40PA12A6TFD	Carton

# 4. CIRCUIT DIAGRAM





# **5.PACKAGE OUTLINE**





#### MOS DEVICES OPERATE NOTES:

Electrostatic charges may exist in many things. Please take following preventive measures to prevent effectively the MOS electric circuit as a result of the damage which is caused by discharge:

- The operator must put on wrist strap which should be earthed to against electrostatic.
- Equipment cases should be earthed.
- All tools used during assembly, including soldering tools and solder baths, must be earthed.
- MOS devices should be packed in antistatic/conductive containers for transportation.





#### Important notice:

- 1. Silan reserves the right to make changes of this instruction without notice.
- Customers should obtain the latest relevant information when purchasing and should verify whether such information is latest
  and complete. Please read this instruction and application manual and related materials carefully before using products,
  including the circuit operation precautions, etc.
- 3. It is neither tested nor verified in accordance with AEC-Q series standards testing or application requirements. Silan does not give any warranties as to the suitability of the Silan's product for any specific use. The design intent, design definition and design of the product are not intended for application (the application stated in this instruction includes use, etc.) in transportation equipment, medical equipment, life-saving equipment, aerospace equipment, non-civil equipment or non-civil use, etc. (the equipment stated in this instruction includes systems, devices, etc., all referred to as equipment). The product should not be used in any equipment or system whose manufacture, use or sale is prohibited under any applicable laws or regulations("unintended use"). If the product is used for unintended use, therefore the full risks of such products application are borne by the customer and Silan assumes no liability for the product used for the unintended use. If the customer intends to use the Silan's product in a application where malfunction or failure can be reasonably be expected to result in personal injury, or serious property, or environment damage, the customer shall make adequate assessment, testing and verification, and Silan shall not be liable for such applications.
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- Please use and apply product in compliance with all applicable laws and regulations, including but not limited to trade control
  regulations etc. The product is civil electronic product, please do not use it in non-civil fields.
- 8. Product promotion is endless, our company will wholeheartedly provide customers with better products!
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