**Fact sheet** 

## **Mold Module**

The solid, flexible basis for power electronics systems

## Advanced technology

- Fully automotive compliant (AEC-Q100)
- Less production steps, faster
  assembling

**Circuit examples** 

Inverter leg

• Minimised material usage: copper base plate, soft molding and bondable frame eliminated

Fullbridge

- Weight- and volume reduction
- Very high mechanical robustness
  Increased cycling capability (temperature shocks and load cycling)
- Pressfit connections instead
  of solder pins

Complete inverter



ENGINEERING TOMORROW

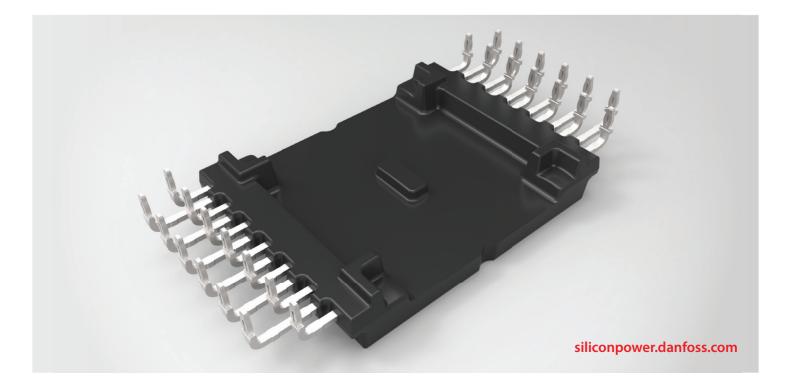
The Mold Module provides a universal platform which can integrate various electrical circuits and any kind of semiconductor technology.

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Pressfit pins assure reliable electrical connections, no soldering of the electrical contacts.

Due to its robust and lightweight conception, the Mold Module is particularly suited for applications with harsh environmental conditions:

- Automotive and heavy duty vehicles
- Inverters for traction and auxiliaries
- Solar inverters
- Uninterruptible power supplies

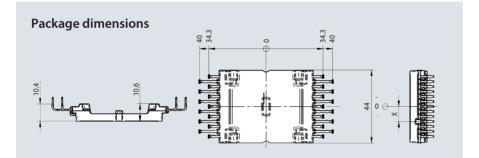






## **Specifications**

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Module information		
Isolation test voltage terminals to bottom area (AC 50 Hz 1 minute)	3000	V
Material for internal insulation	AL203	
Thickness of insulation material	0.32	mm
Creepage distance terminal to bottom side of module	9.5	mm
Creepage distance terminal to terminal	2.7	mm
Clearance terminal to bottom side of module	8.2	mm
Clearance terminal to terminal	1.1	mm
Comparative tracking index of the mold compound (CTI)	> 400	
RoHs compliant	yes	
Lead free	yes	
UL flammability standard	94 - V0	
Maximum ratings		
Ambient temperature	-40 to + 125	°C
Allowable continuous current on one connection pin	50	Arms
Reliability		
Vibration and shock	Automotive profile	
Thermal cycles -40°C / +125° C 30 min	1000	
Pressfit qualification	IEC-60352-5	



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