



Diagnostic Coverage

Safety Mechanism

ISO 26262

LFM

SPFM

FTA

FMEA

FIT

ASIL

Functional Safety

FMEDA

Safety Goal



Meeting Next-Generation Standards with  
ROHM's Functional Safety

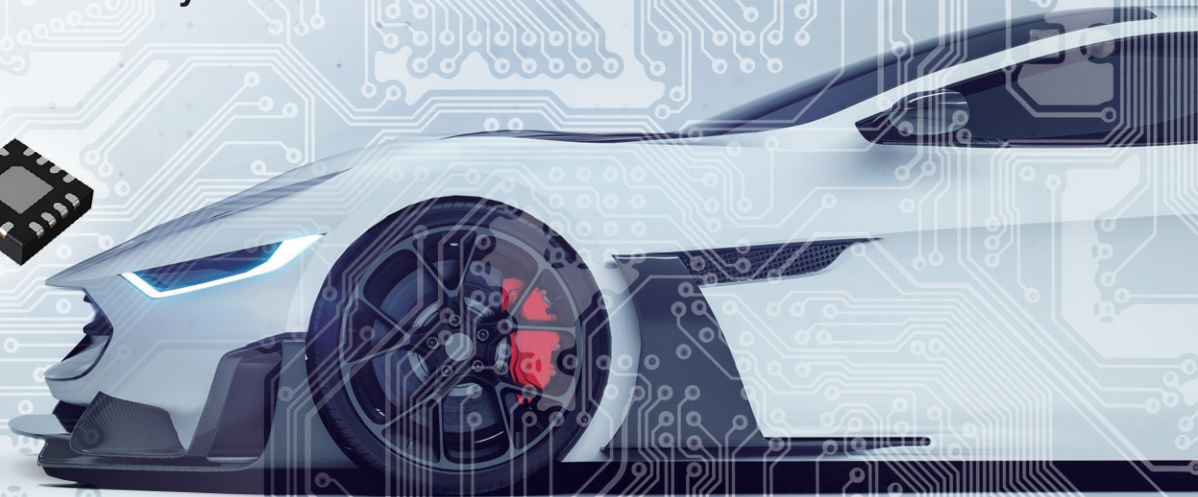
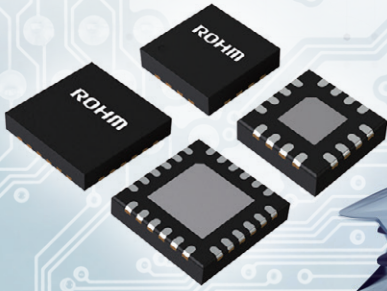


**ComfySIL**  
Functional Safety



# ComfySIL

## Functional Safety



## Pursuing Overall System Safety

Greater safety is required as electronic circuits are increasingly being used for system control in fields such as transportation, industrial equipment and medical devices.

ROHM has established a development and production system compliant with various quality and safety standards that allow us to work together with customers to improve product safety while promoting business activities in line with our corporate objective of 'Quality First'.

## ROHM Automotive Product Initiatives

ROHM provides reliable traceability and an optimized supply chain by adopting a vertically integrated production system within the group that infuses superior quality into every process, from development to manufacturing.

We have built a dedicated line for automotive products and carry out development that complies with quality management system (IATF 16949) and electronic component reliability (AEC-Q100/101/102) standards.

In 2015 we began establishing an ISO 26262 process to address functional safety, and in March 2018 acquired ISO 26262 development process certification from 3rd party certification body TÜV Rheinland.

What's more, as the functional safety requirements for semiconductors continue to increase and a new chapter on semiconductor components was added to the ISO 26262 2nd Edition in December 2018, we are actively working to improve vehicle safety.



ISO 26262 Process Certificate

## Launching the ComfySIL™ brand for functional safety

ROHM launched the ComfySIL™ brand to enable customers involved in the design of functional safety to use products that support SIL (Safety Integrity Level) in a 'Comfy' (comfortable) manner, allowing ROHM to contribute to the greater safety, security, and convenience of social systems.

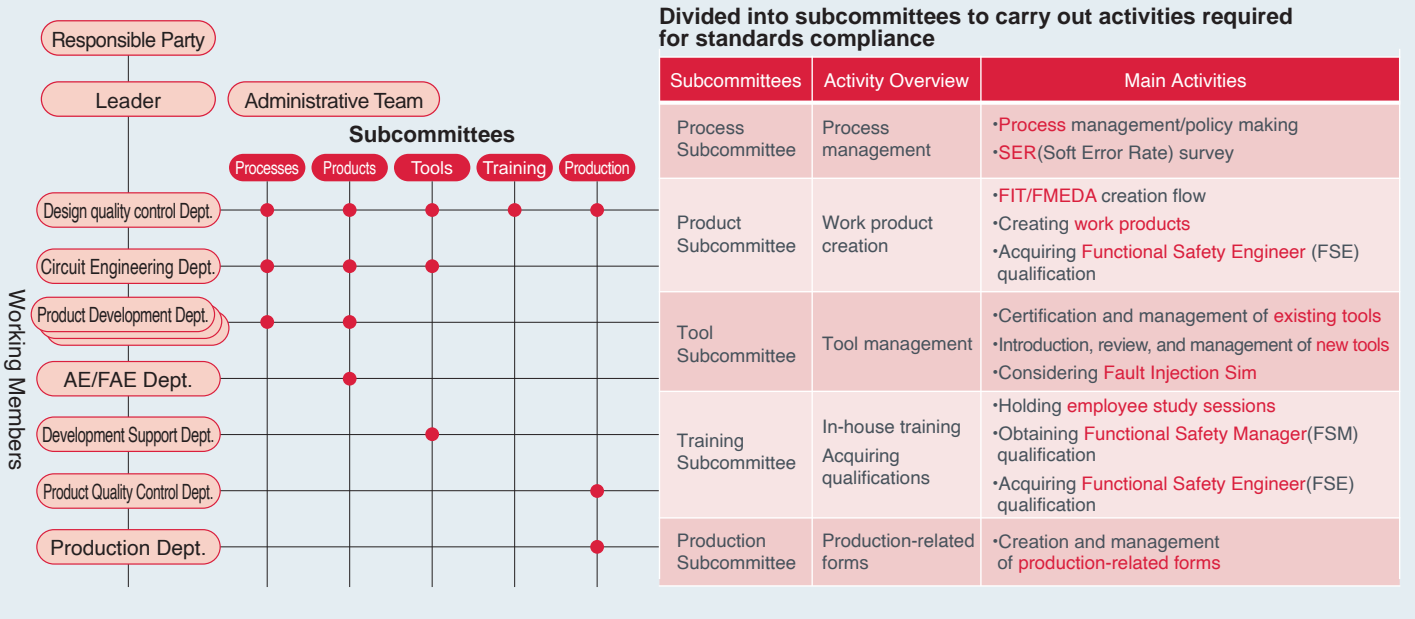
ComfySIL™ is awarded to products that conform to the ComfySIL™ concept for functional safety in the industrial equipment and automotive markets.



ComfySIL™ is a trademark or registered trademark of ROHM Co., Ltd.

# ISO 26262 Framework

ROHM began building ISO 26262 processes to support functional safety in 2015. In addition to full-time employees who have acquired TÜV Rheinland global common certification, cross-sectional activities are carried out through 5 subcommittees in multiple departments (i.e. Design quality control Dept., Circuit Engineering Dept., Product Development Dept., AE/FAE Dept., Development Support Dept.).



# ISO 26262 Process Compliance Documentation

Various work products must be created and managed to comply with ISO 26262 processes. The functional safety manager creates and manages each work product, centrally managing all products in a database to provide customer support.

- ISO 26262 Process Compliance Documentation
- 2 Management: 12 types
  - 4 System: 11 types
  - 5 Hardware: 14 types
  - 6 Software: 17 types
  - 7 Production: 13 types
  - 8 Supporting Processes: 27 types
  - 9 ASIL: 7 types

## ISO 26262 Process Document List





## ROHM ComfySIL™ Functional Safety Categories and Submittable Documents

### Functional Safety Categories

The following are ROHM's functional safety categories(as of October 2021, for the automotive sector only).

- **FS process compliant**  
Indicates that the IC was developed using ISO 26262-compliant processes conforming to the ASIL level.
- **FS mechanism implemented**  
Denotes that the IC is equipped with functional safety required by the ASIL level.
- **FS supportive**  
Indicates the automotive IC is able to support functional analysis related to functional safety.

### List of Materials Provided by Category

	FS process compliant	FS mechanism implemented	FS supportive
IATF16949 Process Compliant	✓	✓	✓
ISO 26262 Process Compliant	✓	—	—
FMEA	✓	✓	✓
FIT	✓	✓	✓
FMEDA	✓	✓	✓*
Safety manual	✓	✓	—

\*FS supportiveFS supportive FMEDA does not include analysis such as hardware architecture metrics.

Refer to ROHM's website for an explanation of ComfySIL™ along with compatible products.

URL: <https://www.rohm.com/functional-safety>



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 2) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrant that such information is error-free and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.  
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