7. Quality assurance and reliability

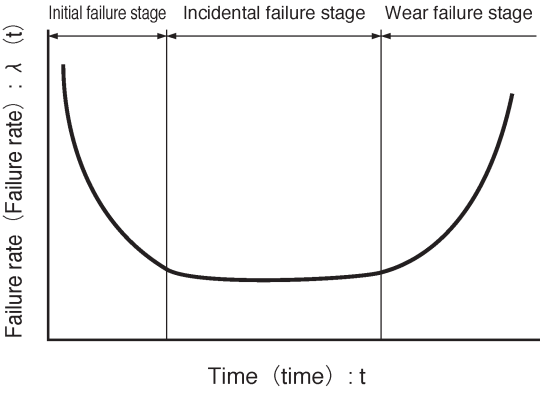
”We put quality first. No matter what it takes, or what kind of problems we run into, our goal is to provide a constant supply of high quality products to our customers both domestic and abroad, to provide these products in the large quantities they need, and to make an ongoing contribution to the progress of culture and civilization.” This is ROHM’s promise when it comes to quality.

In recent years, contact image sensor head products are being use in a greater variety of fields, and they play an important role in enabling the products that they are used in perform at their very best. Consequently, ROHM contact image sensor heads must not only meet the growing demands for high functionality, but also high reliability.

Semiconductor quality is defined by the initial failure rate and the incidental failure rate. It is our goal to reduce both of these rates (occurrence rates) to negligible levels in order to obtain and maintain high reliability in our products.

In many cases, the initial failure rate is tied to problems in the manufacturing process, and this rate stabilizes over time, as problems are worked out. However, stabilizing quality after these initial faulty products have already been allowed onto the market inevitably results in a high rate of complaints from customers. Thus, quality control and process control at the manufacturing stage are critical elements of reliability.

Incidental failures are determined by the design quality of the product, so we work to lower our incidental failure rate by designing products with higher component performance than is actually called for. In other words, we build derated redundancy into our designs to make sure that we achieve the necessary performance level. At ROHM, our goal is to make sure that we produce semiconductors that meet our customers’ needs and provide satisfaction.



Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document use silicon as a basic material.
  Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).
Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.
In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.