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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48216.2-2026

**Semiconductor devices - Generic qualification guidelines - Part
2: Concept of mission profile in reliability qualification**

半导体器件 通用鉴定指南 第2部分：可靠性鉴定中任务剖面的概念

(English Translation)

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Foreword

GB/T 48216.2-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 September 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 April 2027.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the Ministry of Industry and Information Technology (Electronics).

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1 Scope

This document, Part 2 of the generic qualification guidelines for semiconductor devices, introduces the concept of the mission profile in reliability qualification. A mission profile describes the conditions a device is expected to experience during its use, and it is a basis for deciding how reliability should be evaluated.

Semiconductor manufacturers, reliability and quality engineers, automotive and industrial electronics designers, test laboratories, and customers who set qualification requirements can use it to understand how the idea is applied. It is a recommended national standard (GB/T), so it is voluntary unless a contract or customer specification requires it. The standard adopts an international standard.

It forms part of a series, so it is best read together with the other parts of the same set. A shared understanding of mission profiles lets suppliers and customers discuss qualification in the same terms. It becomes effective on 1 April 2027.