



Product Shelf Life

QRE, GigaDevice
2024

Background Introduction

GD

This document describes the definition of shelflife and control standards for the GD packaged products to explain the shelf-life related questions that customers concerned in use.

GD

JEDEC JSTD033

It is based on the results of GD's experience and actual evaluation data, in accordance with the JEDEC JSTD033 standard.

Not Applicable

KGD

The shelf life and storage requirement of KGD product will be sent along with the shipment

JSTD-033D

Product Shelf Life Definition of JSTD-033D Standard

Standard#	Standard Title
IPC/JEDEC J-STD-033D	Handling, Packing, Shipping and Use of Moisture, Reflow, and Process Sensitive Devices

Product Shelf Life

- Shelf Life (of a device in a sealed MBB) The allowable time that a dry-packed moisture or reflow-sensitive device can be stored in an unopened moisture-barrier bag (MBB).

- The calculated shelf life for dry-packed SMD packages shall be a minimum of 12 months from the bag seal date, when stored in a non-condensing atmospheric environment of $40^{\circ}\text{C}/90\% \text{ RH}$.

- JSTD-033D 5.3.2 MBB HIC
baking 12 MSL

This declaration reflects the minimum shelf life calculated under harsh storage conditions; According to JSTD-033D 5.3.2, as long as the MBB is not damaged, the HIC does not show moisture absorption or baking is required, more than 12 months will not be a risk, and the customer may apply the SMT according to the original MSL requirements.



5.3.2 Shelf Life: The minimum calculated shelf life is 12 months from bag seal date or indicated on barcode. If the actual shelf life has exceeded 12 months from the bag seal date and the HIC does not show moisture absorption or baking is required, then it is safe to reflow the devices per the original MSL requirements.

GD

GD Product Shelf Life Requirement

GD :
 GD Date Code MBB
 Date Code Ô

GD Product Shelf-life:

The time between the vacuum packaging date and the date customer unpacking the vacuum package (MBB). However, concerning the industry practice, it is easier to calculate the shelf life from the assembly start date (Date Code) to the date customer unpacking the vacuum package (MBB).

If the products are repacked, the shelf life should start from the actual MBB seal date instead of the Date Code to reflect the resetting of the shelf life.

V2H Date Code

Based on the results of G D ' experience and actual evaluation data, GigaDevice Semiconductor Inc. prolonged the shelf life of the products with an assembly date code can be prolonged to 2 years. The shelf



Product Shelf Life Q&A

Q What is the definition of the product shelf life of GD?

A JEDEC J-STD-033 " 12 24 "

In accordance with JEDEC J-STD-033 "Handling, Packaging, Transportation and Use of Humidity, reflux and process Sensitive Devices", GD provides appropriate MBB and desiccant. The calculated shelf life for dry-packed SMD packages shall be a minimum of 12 months can be prolonged to 24 months from the bag seal date, when stored in a non-condensing

DECLARATION

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THANK YOU

