

SEMI G71-0996 (Reapproved 0823) SPECIFICATION FOR BARCODE MARKING OF INTERMEDIATE CONTAINERS FOR PACKAGING MATERIALS

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NOTICE: Paragraphs entitled 'NOTE:' are not an official part of this Standard or Safety Guideline and are not intended to modify or supersede the official Standard or Safety Guideline. These have been supplied by the global technical committee to enhance the usage of the Standard or Safety Guideline.

1 Purpose

1.1 This Specification describes a common format, content, size, and location for printed, machine-readable labels on an intermediate container of materials used for semiconductor packaging.

1.2 This Specification provides for a smooth transition from existing traceability and labeling procedures to a comprehensive, unified system envisioned for the future.

2 Scope

2.1 This Standard applies to the following packaging materials:

2.1.1 Leadframe

2.1.2 Molding compound

2.1.3 Bonding wire

2.1.4 Die attach materials

2.2 This Standard applies to only the intermediate container. Barcode specification for shipping pack is referred to EIA 556A or EIAJ barcode specification.

2.3 This Standard does not apply to product package label.

NOTE 1: There are requests for labeling on product packages from the customers. However, task force concluded that the product package label was not included in scope of the specification because of limitation of area to be labeled on the package. For further activity, 2D barcode symbol may be needed to standardize the barcode marking specification for product packages.

NOTICE: SEMI Standards and Safety Guidelines do not purport to address all safety issues associated with their use. It is the responsibility of the users of the Documents to establish appropriate safety and health practices, and determine the applicability of regulatory or other limitations prior to use.

3 Referenced Standards and Documents

3.1 *AIM Standards*¹

AIM USS-39 — Universal Symbol Specification Code 39

3.2 *ANSI® Standards*²

ANSI X3.182 — Information Systems – Barcode Print Quality – Guideline

ANSI/FACT-1 — Data Identifier Standard

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² American National Standards Institute, 25 West 43rd Street, New York, NY 10036, USA; Telephone: +1.212.642.4900, Fax: +1.212.398.0023, <http://www.ansi.org>. ANSI trademark is owned by American National Standards Institute.

3.3 EIA Standards³

EIA 556A — Outer Shipping Container Bar Code Label System

3.4 Other Documents

EIAJ Bar Code Label System⁴

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

4 Terminology

4.1 Definitions

4.1.1 Many items relating to barcode technology are defined in EIA 556, Appendix Definitions, and EIAJ Bar Code Label Systems, Appendix A.

4.1.2 *intermediate container* — a container housing one or more product packages for the purpose of product/order segregation in a shipping container.

4.1.3 *product package* — the first tie, wrap, or container to a single item or quantity thereof that constitutes a complete identifiable pack. Product package may be packaged together or a group of the parts packaged together. Product package is also called unit pack.

4.1.4 *shipping pack* — a package or shipping container/final container that is of sufficient strength to be used in commerce for packing, storing, and transporting products (refer to Figure 1).

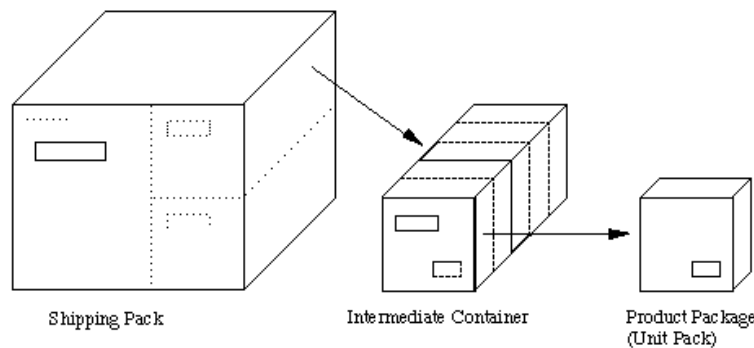


Figure 1
Definition of Package Form

4.1.5 Package forms for each material type are defined in Table 1.

5 Ordering Information

5.1 Purchase orders for the materials furnished in an intermediate package to the specification shall include the following:

5.1.1 Content of message characters for customer product ID.

5.1.2 User-specified data, if required.

5.2 In addition, the following optional items may be specified.

5.2.1 Label location on the intermediate container.

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