



# Packaging and Labeling Guidelines

## ON Semiconductor Standards

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## DEFINITIONS

- **MPN Label:** A bar code label containing the ON Semiconductor Manufacturer Part Number of the device and other traceability information. Label dimensions are 1.625" x 4.9" (41.3 mm X 124.5 mm).
- **CPN Label:** A bar code label containing the Customer part number of the device and other traceability information. Label dimensions are 1.625" x 4.9" (41.3 mm X 124.5 mm).
- **Intermediate Box:** The box that houses the reel or tube(s) containing product. Each Intermediate Box will have an MPN Label and a CPN Label when required.
- **Shipping Label:** A bar coded label used to identify the contents of a shipping container. This also contains a "ship to" name and address. Label dimensions are 4.5" X 6.5" (114.3 mm X 165.1 mm)
- **Overpack Box:** The box that contains one or more Intermediate Boxes. Each Overpack box will have a Shipping Label.



# LABELS

## MPN Label

Each Intermediate Box will have a standard ON Semiconductor MPN Label. The label consists of the following elements:

Field Name	Description
MPN (1P)*	Manufacturer Part Number
LOT (1T)*	Lot Number
DTE (9D)*	Date Code(s)
QTY (Q)*	Quantity in a container
SERIAL NBR (S)*	Unique serial comprised of two-digit site code, two-digit year, and five-digit incremental number.
Assy in	Country of assembly
CS Custom Source	Two-digit country code of wafer fabrication
HF logo	Indicates if material is Halide free.
Pb Free Logo	Indicates if material is Pb free (lead free)
2LI e category	Indicates type of second level interconnect plating.
RoHS=Y	Indicates if material complies with Europe RoHS
MS Level	Moisture Sensitivity Data (include temperature, hours)
Temp	Temperature
Hours	Hours
Sealed	Sealed Date
*-- Bar Coded Fields	

## Sample MPN Label

(1P) MPN: <b>BAV70LT1</b> 	CS:MA 2LI
(1T) LOT: <b>BAV70LDEV1</b> 	<b>HF</b> RoHS = Y
(9D) DTE: <b>0725</b> 	assy. in: <b>CHINA(MQ)</b>
(Q) QTY: <b>100000</b> 	1 year MS Level: <b>2</b> Sealed: 27Nov07 Temp: 260C
	(S) SERIAL NBR: <b>SW07000CR</b> 





### Shipping Label

Each Overpack will have a standard ON Semiconductor shipping label. The label consists of the following elements:

Field Name	Description
FROM	ON Semiconductor return address
SHIP TO	Customer Name and Address
MPN	Manufacturer Part Number
FO	Factory Order Number; Line Item; Factory Order Sub Job
(3S) PKG ID *	ON Semiconductor UCC code, packing list number and three-digit package number.
(K) TRANS ID *	Purchase Order Number
(P) CUSTOMER PROD ID *	Customer Part Number
(Q) QUANTITY *	Package Quantity
(13Q) PACKAGE COUNT *	Which package out of the total number of packages in the shipment
(S) SERIAL # *	Packaging list number + which package out of the total number of packages in the shipment
(No Header)	Various Environmental Logos
COO Assy	Country of Origin based in Assembly, with the two-digit ISO Country Code. If there are multiple countries of origin, the word MULT will be printed in this space.
HF	Indicates if material in this shipping box is Halide free.
(20L) CUST5 *	Customer Code
(6L) CONSOL *	Shipment Consolidation Code
*-- Bar Coded Fields	

### Sample Shipping Label:

<b>FROM:</b> ON SEMICONDUCTOR 2F #1 SCIENCE PARK EAST AVE., HONG KONG  MPN: 1N4007RLG FO: 3250PJ 04 A01		<b>SHIP TO:</b> _____ _____ _____ _____	
(3S) PKG ID: <b>6896068BEMKDB001</b> 			
(K) TRANS ID: <b>873719-21</b> 			
(P) CUSTOMER PROD ID: <b>SAMPLECPN</b> 			
(Q) QUANTITY: <b>5000</b> 			
(13Q) PACKAGE COUNT: <b>1/1</b> 		COO ASSY: <b>PH HF RL</b>	
(S) SERIAL #: <b>BEMKDB + 100/100</b> 		(20L) CUST5: _____ 	
FACT EPSP: <b>01 MAY 09</b> LPSD: <b>07 MAY 09</b> D/C EPSP: <b>01 MAY 09</b> LPSD: <b>08 MAY 09</b>		(6L) CONSOL: <b>AOVHHK</b> 	

**ON Semiconductor Internal Use**



### CPN Label

Some Intermediate Boxes may have a standard ON Semiconductor CPN Label. The label consists of the following elements:

Field Name	Description
CPN (P) *	Customer Part Number
QTY (Q) *	Quantity of container
VDR (2V) *	UCC Vendor Code for ON Semiconductor
DTE (9D) *	Date Code(s)
MPN	Manufacturer Part Number
* -- Bar Coded Fields	

### Sample CPN Label:

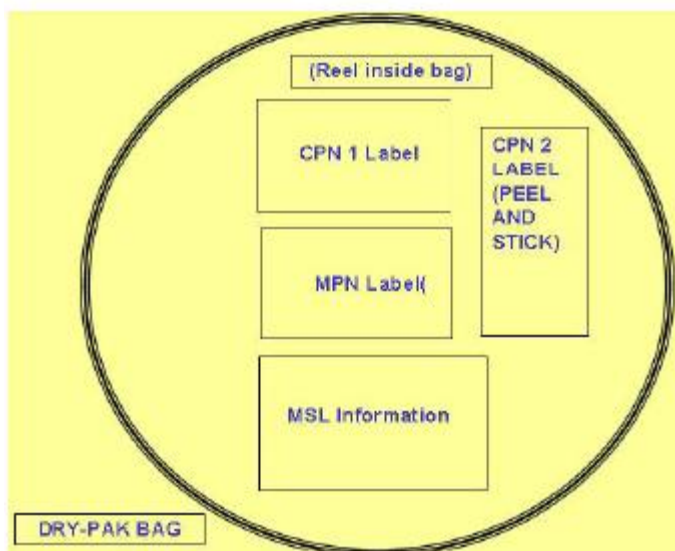


## DRY PACK LABELING

For product requiring dry packing, CPN labels will be included per the following process:

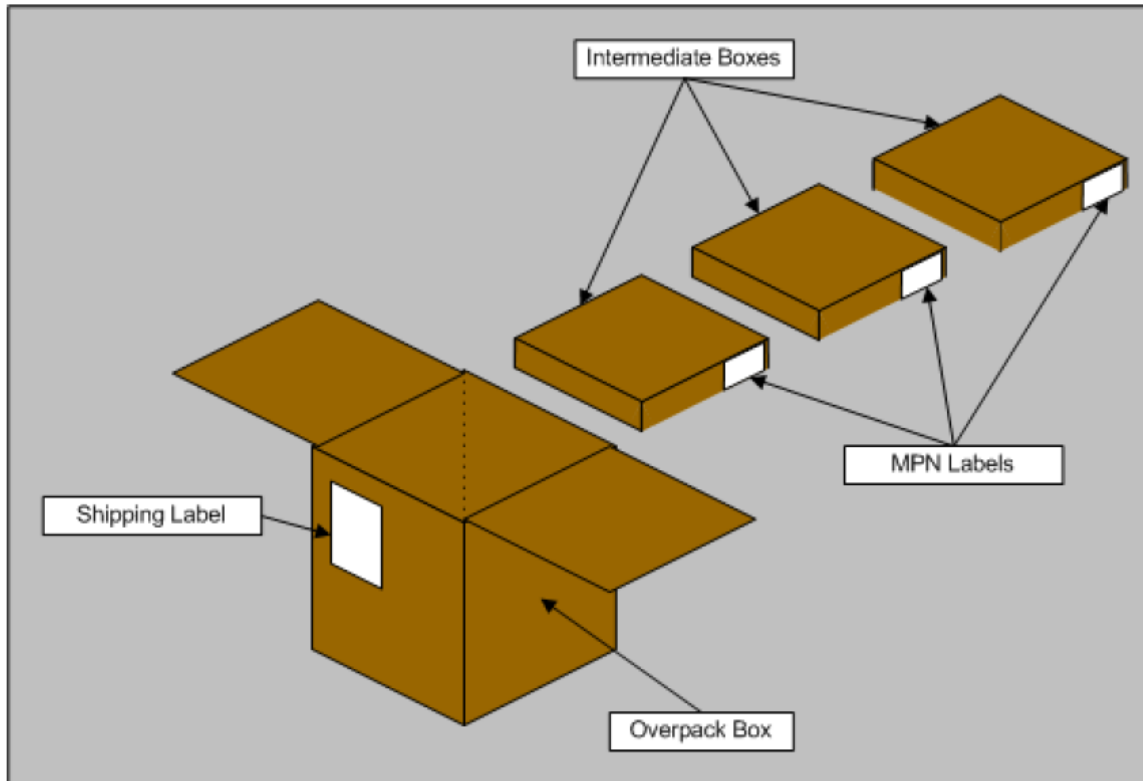
- **CPN Label 1** will be permanently affixed on the outside of the dry pack bag above the MPN label.
- **CPN Label 2** will be a REMOVABLE (peel and stick) label that will be placed on the outside of the dry pack bag
- **CPN Label 3** will be permanently affixed on the outside of the intermediate carton

### Sample Dry Pack Labels and Example:

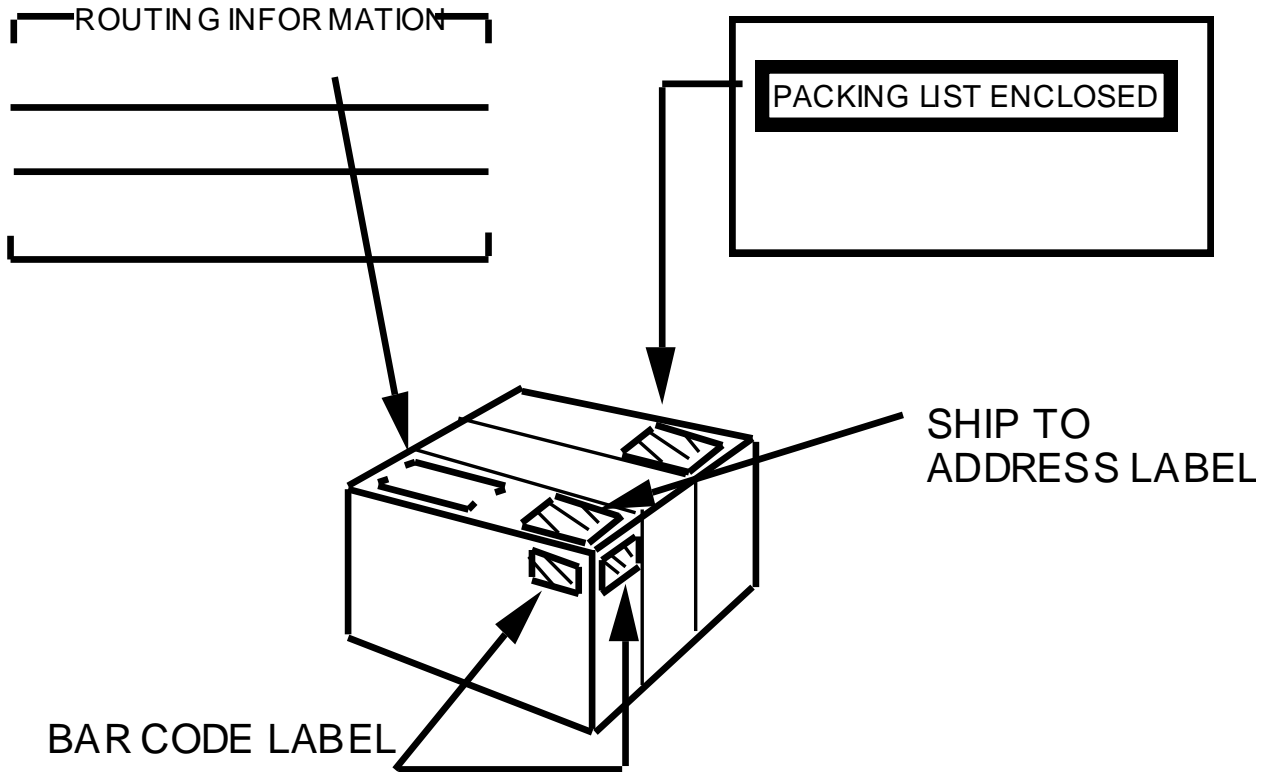


## Packaging and Graphics

Shipments from ON Semiconductor will follow the company's standard packaging process. The "Overpack" box may contain multiple "Intermediate" boxes of a single product. For each line item on an order that is shipped, there will be at least one Overpack Box [more if the quantity of Intermediate Boxes exceeds the capacity of the overpack box]. Any Overpack Box will contain one and only one part number, but may contain varying lots and date codes based on the content of the Intermediate Boxes.

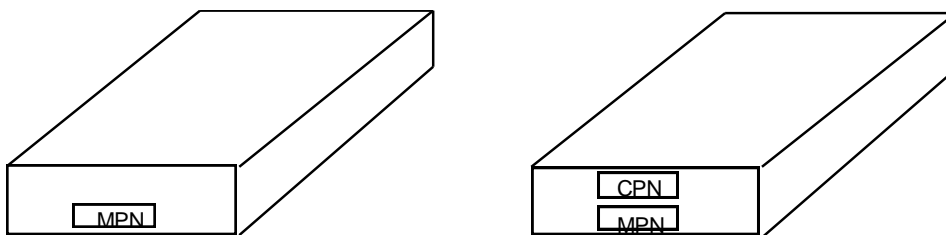


**Overpack box:**



**Standard Rail (Tube) Boxes and other Intermediate Boxes:**

Two Labels on one end: Any Intermediate Box that will accommodate 2 labels on one end.



The MPN LABEL will be placed on the end of the box (small face) and to the left of the flap opening. If a CPN label is REQUIRED, it will be placed directly above the Standard Label. Labels may be centered on the Box End (small face) or may be placed to the left or right sides of the Box End as space allows. The requirement is for the CPN Label to be located above the MPN Label.



Samples ON Semiconductor “Intermediate Boxes” showing Graphics:

Tube Box

Pizza Box



Please Note: These boxes are **Brown** in color



Electrostatic Notification





## Packing List and Certificate of Compliance

The primary Overpack box will contain a packing list detailing the contents of all Overpack boxes in the order. The Packing List contains ON’s standard Certificate of Compliance. The label consists of the following elements:

	Field Name	Description
Text	Ship From	ON Semiconductor Return Address
	Ship To	Customer's Name and Address
	Bill To	Customer's Billing Address
	Customer code	ON Semiconductor designated customer identifier
	End Customer PO No.	Issuing Customer purchase order number
	S/B	Pick Bank (formerly called Source Bank)
	F/O	Sales Order (formerly called Factory Order)
	S/J	Sub Job (3 maximum sub jobs, then prints multiple)
	L/L	Sales Delivery (formerly called Line/Line) (3 maximum deliveries, then prints multiple)
	Purchase Order Date	Purchase Order Issuance Date
	Customer Req. Date	Customer Required Date
	Manufacturer P.D. Date	Manufacturer Planned Delivery Date
	CSD	Customer Schedule Date
	FOB	Freight On Board – Customer takes possession at the location specified
	TERMS	Freight shipping terms (who pays the freight)
	Ship VIA	Carrier or Freight Forwarder
	PKG#	Shipment package number
	Weight	Package weight in pounds and kilograms
	Waybill Number	Shipper identification number for that shipment used for tracking
	Lot Number	Product manufacturing lot number
	Quantity	Manufacturing lot quantity
	Date Code	Manufacturing dates
	Assembly Location	Manufacturing Location
	Die Origin	Die Fabrication Location
	Bar Code and Text	(2V) Vendor ID
(11K) Packing List		Packing List number (ON Semi pickref)
(4S) Package ID		Vendor ID and packing list number
(K) Transit ID		Customer's purchase order number
(P) Customer Prod ID		Customer Part Number
(1P) Manufacturer Part Number		ON Semiconductor Part Number
(Z) Parcels		Total box count
(2Q) Total Weight in KG		Total Package weight of shipment in kilograms (weight in pounds listed above kg)
(Q) Qty This Shipment		Package Quantity
(13D) Date Code		Product dated code(s)



Sample Packing List:

**ON Semiconductor** (ON)  
 (2V) VENDOR ID: 689606 (11K) PACKING LIST: BBD31L  
 DATE: 05 FEB 03  
 PAGE 1 OF 1  
 ON SEMICONDUCTOR  
 2F #1 SCIENCE PARK EAST  
 AVE., HONG KONG  
 852 - 2666-8333  
 CUSTOMER CODE: DJSAX  
 END CUSTOMER PO NO.:  
 DO ITEM: 1  
 S/B: WW10  
 F/O: 07000M-01  
 S/J: A01  
 L/L: 01  
 PURCHASE ORDER DATE: 03 FEB 03  
 CUSTOMER REQ. DATE: 07 FEB 03  
 MANUFACTURER P.O. DATE: 13 FEB 03  
 CSD: 31 JAN 03  
 ZONE, SONG LING TOWN  
 WUJIANG CITY, JIANGSU  
 WUJIANG CITY, JIANGSU

(4G) PACKAGE ID: 689606 BBD31L  
 (K) TRANS ID: TEST-CHINA FLOW2  
 (P) CUSTOMER PROD ID: 210522000405  
 (1P) MANUFACTURER PART NUMBER: MMBT3904LT1  
 (Z) PARCELS: 1  
 (2Q) TOTAL WEIGHT IN KG: 3.5  
 (Q) QTY THIS SHIPMENT: 3,000  
 (13D) DATE CODES OLDEST/NEWEST: 03030303

FOB FC	TERMS NW	LOT NUMBER	DATE QUANTITY CODE	ASSEMBLY LOCATION	DIC ORIGIN
SHIP VIA: SA	CHARGES: 0.00	WQ1004110	3,000 0303	CHN	MA
(001)	7.7 3.5				

**CERTIFICATE OF COMPLIANCE**  
 I hereby certify that all articles in the quantities as called for in the above release were in compliance with the requirements, specifications and drawings listed in the above release and were inspected by me or a qualified person in writing. Reseller substantiated test report statements are available to our office for inspection at auditors' expense.  
 KEVIN STANS, VICE PRESIDENT AND DIRECTOR QUALITY  
 SE 000000.0292

**NOTICE TO SUBSEQUENT PURCHASER OR REPACKER**  
 SOME OF THE ARTICLES INCLUDED HEREIN ARE IMPORTED AND CAN BE IDENTIFIED BY THE MARKING ON THEIR CONTAINERS INDICATING MANUFACTURE IN COUNTRIES OTHER THAN THE UNITED STATES. THE REQUIREMENTS OF 19 U.S.C. 1304 AND 25 CFR PART 124 PROVIDE THAT THE IMPORTED ARTICLES OF THIS CONTAINER MUST BE MARKED IN A CONSPICUOUS PLACE AS LEGISLATION INDICATES AND PERMANENTLY AS THE NATURE OF THE ARTICLE OR CONTAINER WILL PERMIT, IN SUCH A MANNER AS TO INDICATE TO AN ultimate PURCHASER IN THE UNITED STATES THE ENGLISH NAME OF THE COUNTRY OF ORIGIN OF THE ARTICLE.  
 CR CHK: N

Certificate of Compliance