

Title of Change:	Alignment of Case Outline 457-04 Symbol Drawing with JEDEC Standards
Effective date:	03 Oct 2025
Contact information:	Contact your local onsemi Sales Office
Type of notification:	This Product Bulletin is for notification purposes only. onsemi will proceed with implementation of this change upon publication of this Product Bulletin.
Change Category:	Documentation
Change Sub-Category(s):	Align the document of physical dimension case out line 457-04 with JEDEC standards

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	None

Description and Purpose:

onsemi wishes to inform customers of its plan to update the documentation for the physical dimensions of case outline 457-04. This update is intended to align the documentation with JEDEC standards
This update does not impact the dimensions of the physical unit and there is no change of assembly process.

Case
out
line
457-
04

Version G

POWERMITE
CASE 457
ISSUE G

DATE 12 JAN 2022

SCALE 4:1

RECOMMENDED MOUNTING FOOTPRINT

DIM	MILLIMETERS		INCHES	
	MIN.	MAX.	MIN.	MAX.
A	1.75	2.05	0.069	0.081
B	1.75	2.18	0.069	0.086
C	0.85	1.15	0.033	0.045
D	0.40	0.69	0.016	0.027
F	0.70	1.00	0.028	0.039
H	-0.05	0.10	-0.002	0.004
J	0.10	0.25	0.004	0.010
K	3.60	3.90	0.142	0.154
L	0.50	0.80	0.020	0.031
R	1.20	1.50	0.047	0.059
S	0.50	REF	0.019	REF

GENERIC
MARKING DIAGRAMS*

STYLE 1: PIN 1: CATHODE, 2: ANODE

STYLE 2: PIN 1: ANODE OR CATHODE (B-DIRECTIONAL), 2: CATHODE OR ANODE (B-DIRECTIONAL)

STYLE 3: PIN 1: ANODE, 2: CATHODE

XXX = Specific Device Code
M = Date Code
= Pb-Free Package

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30mm FROM THE TERMINAL TIP.

This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "", may or may not be present. Some products may not follow the Generic Marking.

Version H

POWERMITE 1.90x1.96x1.00
CASE 457
ISSUE H

DATE 16 MAY 2025

RECOMMENDED MOUNTING FOOTPRINT

DIM	MILLIMETERS			
	MIN	NOM	MAX	
A	0.85	1.00	1.15	
A1	0.00	0.05	0.10	
b	0.40	0.55	0.69	
b1	0.70	0.85	1.00	
c	0.10	0.18	0.25	
D	1.75	1.90	2.05	
E	1.75	1.96	2.18	
H	3.60	3.75	3.90	
L	1.20	1.35	1.50	
L1	0.50	0.65	0.80	
L2		0.50	REF	

RECOMMENDED MOUNTING FOOTPRINT

*For additional information on our Pb-Free Strategy and Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC
MARKING DIAGRAMS*

STYLE 1: PIN 1: CATHODE, 2: ANODE

STYLE 2: PIN 1: ANODE OR CATHODE (B-DIRECTIONAL), 2: CATHODE OR ANODE (B-DIRECTIONAL)

STYLE 3: PIN 1: ANODE, 2: CATHODE

XXX = Specific Device Code
M = Date Code
= Pb-Free Package

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION D & E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "", may or may not be present. Some products may not follow the Generic Marking.

The symbol drawing will be changed from version G to version to align with the JEDEC standard.

CASE 457				
From version G		To version H		
Symbol Drawing	MILLIMETERS	Symbol Drawing	MILLIMETERS	Remark
A	1.75-2.05	D	1.75 – 2.05	No change
B	1.75-2.18	E	1.75-2.18	No change
C	0.85-1.15	A	0.85-1.15	No change
D	0.40-0.69	b	0.4 – 0.69	No change
F	0.70-1.0	b1	0.7 – 1.0	No change
H	-0.05-0.10	a1	0 – 0.10	Standardization
J	0.10 -0.25	c	0.10-0.25	No change
K	3.60-3.90	H	3.6 -3.9	No change
L	0.50-0.80	L1	0.5 – 0.80	No change
R	1.20-1.50	L	1.2-1.5	No change
S	0.50 REF	L2	0.50 REF	No change

This change does not impact the Form, Fit and Function of affected device.
Datasheet specifications and product electrical performance remain unchanged.

List of Affected Standard Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

NUD4700SNT1G	1PMT5920BT1G	1PMT5921BT1G
1PMT5924BT1G	1PMT5927BT1G	1PMT5929BT1G
1PMT5933BT1G	1PMT5935BT1G	1PMT5941BT1G
MBRM120ET1G	MBRM120ET3G	MBRM120LT1G
MBRM120LT3G	MBRM130LT1G	MBRM140T1G
MBRM140T3G	MBRM1H100T3G	MBRM2H100T3G

Appendix A: Changed Products

PCN#: PB27012X
Issue Date: Oct 03, 2025

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NUD4700SNT1G		NA		
1PMT5920BT1G		NA		
1PMT5924BT1G		NA		
1PMT5921BT1G		NA		
1PMT5927BT1G		NA		
1PMT5929BT1G		NA		
1PMT5935BT1G		NA		
MBRM120ET1G		NA		
1PMT5933BT1G		NA		
MBRM120ET3G		NA		
MBRM120LT1G		NA		
MBRM120LT1G		NA		
MBRM120LT3G		NA		
MBRM130LT1G		NA		
MBRM140T1G		NA		
MBRM140T3G		NA		
MBRM1H100T3G		NA		
MBRM2H100T3G		NA		

Appendix A: Changed Products

PCN#: PB27012X
Issue Date: Oct 03, 2025

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MBRM140T3G		NA		