

<b>Title of Change:</b>	D2PAK Case Outline Standardization from 418B-04 to 418AJ for all effected devices manufactured in On Semiconductor Seremban, On Semiconductor Vietnam and TFME facility.
<b>Effective date:</b>	14 July 2019
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <Norsahida.sahman@onsemi.com>
<b>Type of notification:</b>	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.
<b>Change Category:</b>	<input type="checkbox"/> Wafer Fab <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other <u>Case Outline</u>

**Change Sub-Category(s):**

<input type="checkbox"/> Manufacturing Site Addition	<input type="checkbox"/> Material Change	<input checked="" type="checkbox"/> Datasheet/Product Doc change
<input type="checkbox"/> Manufacturing Site Transfer	<input type="checkbox"/> Product specific change	<input type="checkbox"/> Shipping/Packaging/Marking
<input type="checkbox"/> Manufacturing Process Change		<input type="checkbox"/> Other: _____

<b>Sites Affected:</b>	ON Semiconductor Sites: ON Seremban, Malaysia ON Dong Nai Province, Vietnam	External Foundry/Subcon Sites: TFME
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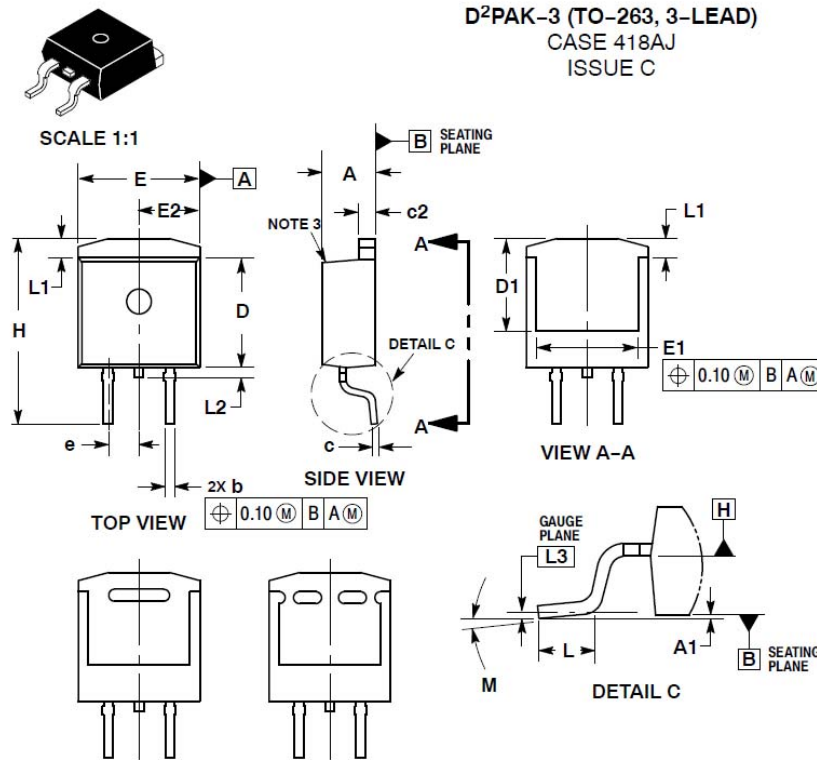
**Description and Purpose:**

ON Semiconductor is migrating the D2PAK discrete package case outline from version 418B-04 to version 418AJ. The change impacts the Rectifier, BJT and MOSFET product lines. This transition allows ON Semiconductor to standardize its significantly increased portfolio on a single case outline.

This notification does not represent a change to existing materials, tools or processes used to manufacture the affected devices. The new case outline, 418AJ, is consistent with JEDEC dimensional guidelines for the D2PAK.

**D<sup>2</sup>PAK-3 (TO-263, 3-LEAD)**  
 CASE 418AJ  
 ISSUE C

DATE 03 OCT 2018



**SCALE 1:1**

**NOTES:**

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- CONTROLLING DIMENSION: INCHES.
- CHAMFER OPTIONAL
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.005 PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY AT DATUM H.
- THERMAL PAD CONTOUR IS OPTIONAL WITHIN DIMENSIONS E, L1, D1 AND E1.

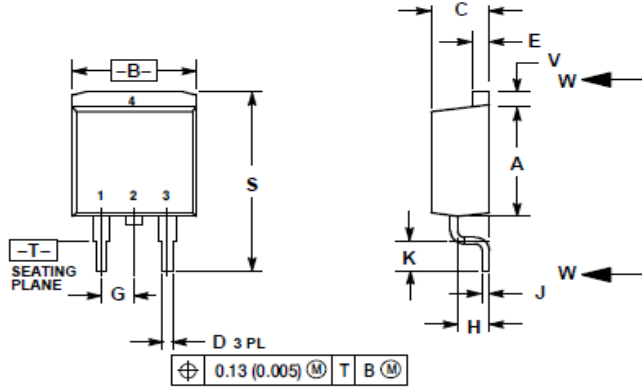
DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.160	0.190	4.06	4.83
A1	0.000	0.010	0.00	0.25
b	0.020	0.039	0.51	0.99
c	0.012	0.029	0.30	0.74
c2	0.045	0.065	1.14	1.65
D	0.330	0.380	8.38	9.65
D1	0.260	----	6.60	----
E	0.380	0.420	9.65	10.67
E1	0.245	----	6.22	----
e	0.100 BSC	----	2.54 BSC	----
H	0.575	0.625	14.60	15.88
L	0.070	0.110	1.78	2.79
L1	----	0.066	----	1.68
L2	----	0.070	----	1.78
L3	0.010 BSC	----	0.25 BSC	----
M	-8°	8°	-8°	8°



**D<sup>2</sup>PAK 3**  
CASE 418B-04  
ISSUE L

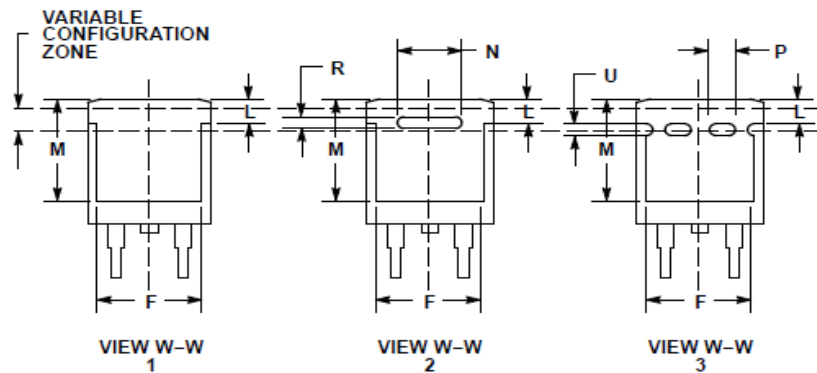
DATE 17 FEB 2015

SCALE 1:1



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: INCH.
  3. 418B-01 THRU 418B-03 OBSOLETE. NEW STANDARD 418B-04.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.340	0.380	8.64	9.65
B	0.380	0.405	9.65	10.29
C	0.160	0.190	4.06	4.83
D	0.020	0.035	0.51	0.89
E	0.045	0.055	1.14	1.40
F	0.310	0.350	7.87	8.89
G	0.100 BSC		2.54 BSC	
H	0.080	0.110	2.03	2.79
J	0.018	0.025	0.46	0.64
K	0.090	0.110	2.29	2.79
L	0.052	0.072	1.32	1.83
M	0.280	0.320	7.11	8.13
N	0.197 REF		5.00 REF	
P	0.079 REF		2.00 REF	
R	0.039 REF		0.99 REF	
S	0.575	0.625	14.60	15.88
V	0.045	0.055	1.14	1.40



**List of Affected Parts:**

BUB323ZG	MBRB2515LT4G	MBRB60H100CTT4G	MURB1660CTG	NTB5605PT4G	NTSB30U100CTG
BUB323ZT4G	MBRB2515LT4H	MBRB8H100T4G	MURB1660CTT4G	NTB60N06T4	NTSB30U100CTT4G
MBRB1045G	MBRB2535CTLG	MJB41CG	MURHB840CTG	NTB60N06T4G	NTSB40100CTG
MBRB1045T4G	MBRB2535CTLT4G	MJB41CT4G	MURHB840CTT4G	NTB6410ANT4G	NTSB40100CTT4G
MBRB1545CTG	MBRB2545CTG	MJB42CT4G	MURHB860CTT4G	NTB6413ANT4G	NTSB40120CTG
MBRB1545CTT4G	MBRB2545CTT4G	MJB44H11G	NGB8202ANT4G	NTSB20100CTG	NTSB40120CTT4G
MBRB1645T4G	MBRB3030CTG	MJB44H11T4G	NGB8206ANSL3G	NTSB20100CTT4G	NTSB40200CTG
MBRB20100CTG	MBRB3030CTLG	MJB45H11G	NGB8206ANT4G	NTSB20120CTG	NTSB40200CTT4G
MBRB20100CTT4G	MBRB3030CTT4G	MJB45H11T4G	NGB8206ANTF4G	NTSB20120CTT4G	NTSB60100CTG
MBRB20200CTG	MBRB30H60CTT4G	MJB5742T4G	NTB25P06T4G	NTSB20U100CTG	NTSB60100CTT4G
MBRB20200CTT4G	MBRB40250TG	MTB50P03HDLT4G	NTB35N15T4G	NTSB20U100CTT4G	XMBRB1045T4G
MBRB2060CTG	MBRB40250TT4G	MURB1620CTG	NTB45N06LT4G		NTSB30100CTG
MBRB2060CTT4G	MBRB4030G	MURB1620CTRG	NTB45N06T4G		NTSB30100CTT4G
MBRB20H100CTT4G	MBRB4030T4G	MURB1620CTRT4G	NTB52N10T4		NTSB30120CTG
MBRB2515LG	MBRB41H100CTT4G	MURB1620CTT4G	NTB5405NT4G		NTSB30120CTT4G

Japanese translation of the notification starts here.  
通知の日本語訳はここから始まります。

*Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.*

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。

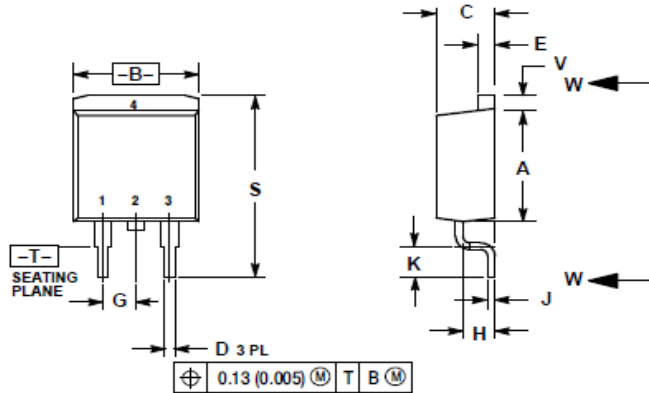




SCALE 1:1

D<sup>2</sup>PAK 3  
CASE 418B-04  
ISSUE L

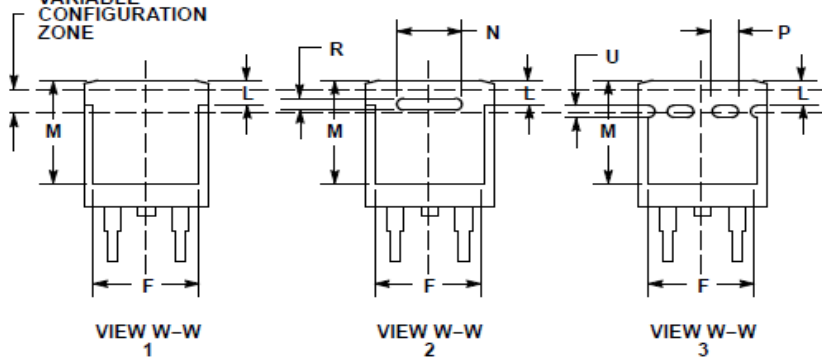
DATE 17 FEB 2015



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G	0.100 BSC		2.54 BSC	
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J	0.018	0.025	0.46	0.64
K	0.090	0.110	2.29	2.79
L	0.052	0.072	1.32	1.83
M	0.280	0.320	7.11	8.13
N	0.197 REF		5.00 REF	
P	0.079 REF		2.00 REF	
R	0.039 REF		0.99 REF	
S	0.575	0.625	14.60	15.88
V	0.045	0.055	1.14	1.40

VARIABLE CONFIGURATION ZONE



影響を受ける部品の一覧:

BUB323ZG	MBRB2515LT4G	MBRB60H100CTT4G	MURB1660CTG	NTB5605PT4G	NTSB30U100CTG
BUB323ZT4G	MBRB2515LT4H	MBRB8H100T4G	MURB1660CTT4G	NTB60N06T4	NTSB30U100CTT4G
MBRB1045G	MBRB2535CTLG	MJB41CG	MURHB840CTG	NTB60N06T4G	NTSB40100CTG
MBRB1045T4G	MBRB2535CTLT4G	MJB41CT4G	MURHB840CTT4G	NTB6410ANT4G	NTSB40100CTT4G
MBRB1545CTG	MBRB2545CTG	MJB42CT4G	MURHB860CTT4G	NTB6413ANT4G	NTSB40120CTG
MBRB1545CTT4G	MBRB2545CTT4G	MJB44H11G	NGB8202ANT4G	NTSB20100CTG	NTSB40120CTT4G
MBRB1645T4G	MBRB3030CTG	MJB44H11T4G	NGB8206ANSL3G	NTSB20100CTT4G	NTSB40200CTG
MBRB20100CTG	MBRB3030CTLG	MJB45H11G	NGB8206ANT4G	NTSB20120CTG	NTSB40200CTT4G
MBRB20100CTT4G	MBRB3030CTT4G	MJB45H11T4G	NGB8206ANTF4G	NTSB20120CTT4G	NTSB60100CTG
MBRB20200CTG	MBRB30H60CTT4G	MJB5742T4G	NTB25P06T4G	NTSB20U100CTG	NTSB60100CTT4G
MBRB20200CTT4G	MBRB40250TG	MTB50P03HDLT4G	NTB35N15T4G	NTSB20U100CTT4G	XMBRB1045T4G
MBRB2060CTG	MBRB40250TT4G	MURB1620CTG	NTB45N06LT4G		NTSB30100CTG
MBRB2060CTT4G	MBRB4030G	MURB1620CTRG	NTB45N06T4G		NTSB30100CTT4G
MBRB20H100CTT4G	MBRB4030T4G	MURB1620CTRT4G	NTB52N10T4		NTSB30120CTG
MBRB2515LG	MBRB41H100CTT4G	MURB1620CTT4G	NTB5405NT4G		NTSB30120CTT4G



**Appendix A: Changed Products**

D

Product	Customer Part Number
BUB323ZG	
BUB323ZT4G	
MBRB1045G	
MBRB1045T4G	
MBRB1545CTG	
MBRB1545CTT4G	
MBRB1645T4G	
MBRB20100CTG	
MBRB20100CTT4G	
MBRB20200CTG	
MBRB20200CTT4G	
MBRB2060CTG	
MBRB2060CTT4G	
MBRB20H100CTT4G	
MBRB2515LG	
MBRB2515LT4G	
MBRB2535CTLG	
MBRB2535CTLT4G	
MBRB2545CTG	
MBRB2545CTT4G	
MBRB3030CTG	
MBRB3030CTLG	
MBRB3030CTT4G	
MBRB30H60CTT4G	
MBRB40250TG	
MBRB4030G	
MBRB4030T4G	
MBRB41H100CTT4G	
MBRB60H100CTT4G	
MBRB8H100T4G	
MJB41CG	
MJB41CT4G	
MJB42CT4G	
MJB44H11G	
MJB44H11T4G	
MJB45H11G	
MJB45H11T4G	
MJB5742T4G	
MTB50P03HDLT4G	
MURB1620CTG	
MURB1620CTRG	
MURB1620CTRT4G	
MURB1620CTT4G	
MURB1660CTG	
MURB1660CTT4G	
MURHB840CTG	
MURHB840CTT4G	
MURHB860CTT4G	
NTB25P06T4G	
NTB35N15T4G	
NTB45N06LT4G	
NTB45N06T4G	
NTB5405NT4G	
NTB5605PT4G	
NTB60N06T4G	
NTB6410ANT4G	
NTB6413ANT4G	
NTSB20100CTG	
NTSB20100CTT4G	



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NTSB20120CTT4G	
NTSB30100CTG	
NTSB30100CTT4G	
NTSB30120CTG	
NTSB30120CTT4G	
NTSB30U100CTG	
NTSB30U100CTT4G	
NTSB40100CTG	
NTSB40100CTT4G	
NTSB40200CTG	
NTSB40200CTT4G	