



DATE: 29 December, 2021

PCN #: 2563

PCN Title: Additional Wafer Source and Alternate Assembly Lead Frame and Clip Bond for Select Automotive Products

Dear Customer:

This is an announcement of change(s) to products that are currently being offered by Diodes Incorporated.

We request that you acknowledge receipt of this notification within 30 days of the date of this PCN. If you require samples for evaluation purposes, please make a request immediately. Please refer to the implementation date of this change as it is stated in the attached PCN form. Please contact your local Diodes sales representative to acknowledge receipt of this PCN and for any sample requests.

The changes announced in this PCN will not be implemented earlier than 90 days from the notification date stated in the attached PCN form.

Previously agreed upon customer specific change process requirements or device specific requirements will be addressed separately.

For questions or clarification regarding this PCN, please contact your local Diodes sales representative.

Sincerely,

Diodes Incorporated PCN Team



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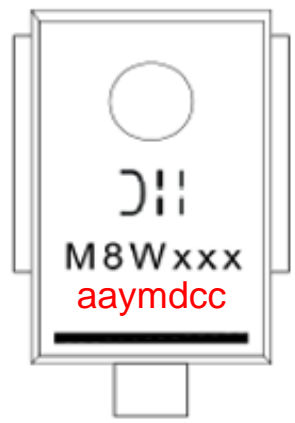
**PRODUCT CHANGE NOTICE****PCN-2563 REV1**

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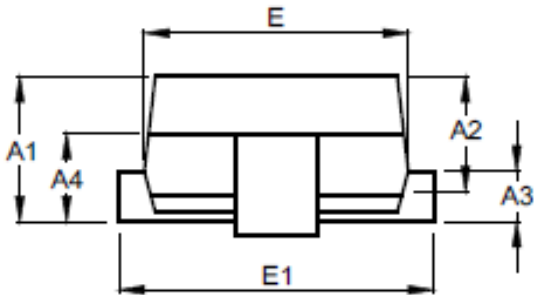
Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
29 December, 2021	29 March, 2022	Discrete - Automotive	Additional Wafer Source Assembly Bill of Materials	<b>2563</b>
TITLE				
Additional Wafer Source and Alternate Assembly Lead Frame and Clip Bond for Select Automotive Products				
DESCRIPTION OF CHANGE				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes Incorporated has qualified Diodes internal KLFAB in Keelung, Taiwan as an additional wafer source, and alternate assembly lead frame and clip bond for select automotive products listed below.</p> <p>Full electrical characterization and high reliability testing has been completed on representative part numbers to ensure no change to device functionality or electrical specifications in the datasheet. Refer to the attached qualification report embedded in this file (to view, download this PCN file then open it with a PDF viewer to see the attached qual report).</p>				
IMPACT				
Continuity of Supply. There will be no change to the Form, Fit or Function of products affected, unless specifically indicated, i.e. package will have marking and package outline dimension (POD) changes as outlined in the tables below. No change in datasheet parameters and product performance.				
PRODUCTS AFFECTED				
Table 1 – Affected Automotive Products Table 2 – Part Marking Format Changes Table 3 – Package Outline Dimension (POD) Changes				
WEB LINKS				
<b>Manufacturer's Notice:</b>	<a href="https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/">https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/</a>			
<b>For More Information Contact:</b>	<a href="https://www.diodes.com/about/contact-us/contact-sales/">https://www.diodes.com/about/contact-us/contact-sales/</a>			
<b>Data Sheet:</b>	<a href="https://www.diodes.com/catalog/">https://www.diodes.com/catalog/</a>			
DISCLAIMER				
<b>Unless a Diodes Incorporated Sales representative is contacted in writing within 30 days of the posting of this notice, all changes described in this announcement are considered approved.</b>				

Table 1 - Affected Automotive Products					
DM5W10AQ-13	DM5W26AQ-13	DM6W14AQ-13	DM6W27Q-13	DM8W13AQ-13	DM8W28AQ-13
DM5W15AQ-13	DM5W27Q-13	DM6W16AQ-13	DM6W28AQ-13	DM8W18AQ-13	DM8W30AQ-13
DM5W16AQ-13	DM5W28AQ-13	DM6W18AQ-13	DM6W30AQ-13	DM8W22AQ-13	DM8W33AQ-13
DM5W18AQ-13	DM5W30AQ-13	DM6W22AQ-13	DM6W33AQ-13	DM8W24AQ-13	DM8W36AQ-13
DM5W20AQ-13	DM5W33AQ-13	DM6W24AQ-13	DM6W36AQ-13	DM8W26AQ-13	DM8W40AQ-13
DM5W22AQ-13	DM5W36AQ-13	DM6W26AQ-13	DM8W11AQ-13	DM8W27Q-13	DM8W43AQ-13
DM5W24AQ-13	DM6W10AQ-13				

**Table 2 – Part Marking Format Changes**

DM8WxxA(Q) marking example (Before)	DM8WxxA(Q) marking example (After)
Marking format example	Marking format example
	
<p>M8WxxA = Product Type Marking Code (i.e. M8W18A for DM8W18AQ-13)</p> <p>DII = Manufacturers Code Marking</p> <p>YWW = Date Code Marking</p> <p>Y = Last Digit of Year (ex: 0 for 2020)</p> <p>WW = Week Code (01 to 53)</p> <p>Bar Denotes Cathode Pin, Circle Denotes Anode</p>	<p>M8WxxA = Product Type Marking Code (i.e. M8W18A for DM8W18AQ-13)</p> <p>DII = Manufacturers Code Marking</p> <p>aa: Wafer source code</p> <p>y: Year (L=2021)</p> <p>m: Month (1 – C)</p> <p>d: Date (1 – V)</p> <p>cc: Lot serial number</p> <p>Bar Denotes Cathode Pin, Circle Denotes Anode</p>

**Table 3 – Package Outline Dimension (POD) Changes**



Package	From : Before	Change To : After																																																																																																																																								
<b>DO-218 (Type E)</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">DO-218 (Type E)</th> </tr> <tr> <th>Dim</th> <th>Min</th> <th>Max</th> <th>Typ</th> </tr> </thead> <tbody> <tr><td>A</td><td>4.7</td><td>5.7</td><td>--</td></tr> <tr><td>A1</td><td>4.7</td><td>5.25</td><td>5</td></tr> <tr><td>A2</td><td>3.45</td><td>4.25</td><td>3.95</td></tr> <tr><td>A3</td><td>1.7</td><td>2.5</td><td>2</td></tr> <tr><td>A4</td><td>2.65</td><td>3.55</td><td>3.1</td></tr> <tr><td>b</td><td>2.3</td><td>3</td><td>--</td></tr> <tr><td>c</td><td>0.45</td><td>0.9</td><td>--</td></tr> <tr><td>D</td><td>13.2</td><td>13.8</td><td>13.5</td></tr> <tr><td>D1</td><td>8.7</td><td>9.3</td><td>9</td></tr> <tr><td>D2</td><td>9.7</td><td>10.3</td><td>10</td></tr> <tr><td>E</td><td>8.2</td><td>8.8</td><td>8.5</td></tr> <tr><td>E1</td><td>9.5</td><td>10</td><td>--</td></tr> <tr><td>H</td><td>15</td><td>16</td><td>15.5</td></tr> <tr><td>L</td><td>1.5</td><td>2.5</td><td>2</td></tr> <tr> <td colspan="4" style="text-align: center;">All Dimensions in mm</td> </tr> </tbody> </table>	DO-218 (Type E)				Dim	Min	Max	Typ	A	4.7	5.7	--	A1	4.7	5.25	5	A2	3.45	4.25	3.95	A3	1.7	2.5	2	A4	2.65	3.55	3.1	b	2.3	3	--	c	0.45	0.9	--	D	13.2	13.8	13.5	D1	8.7	9.3	9	D2	9.7	10.3	10	E	8.2	8.8	8.5	E1	9.5	10	--	H	15	16	15.5	L	1.5	2.5	2	All Dimensions in mm				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">DO-218 (Type E)</th> </tr> <tr> <th>Dim</th> <th>Min</th> <th>Max</th> <th>Typ</th> </tr> </thead> <tbody> <tr><td>A</td><td>4.7</td><td>5.7</td><td>--</td></tr> <tr><td>A1</td><td>4.7</td><td>5.25</td><td>5</td></tr> <tr><td>A2</td><td>3.45</td><td><b>4.26</b></td><td>3.95</td></tr> <tr><td>A3</td><td>1.7</td><td>2.5</td><td>2</td></tr> <tr><td>A4</td><td><b>2.58</b></td><td>3.55</td><td>3.1</td></tr> <tr><td>b</td><td>2.3</td><td>3</td><td>--</td></tr> <tr><td>c</td><td>0.45</td><td>0.9</td><td>--</td></tr> <tr><td>D</td><td>13.2</td><td>13.8</td><td>13.5</td></tr> <tr><td>D1</td><td>8.7</td><td>9.3</td><td>9</td></tr> <tr><td>D2</td><td>9.7</td><td>10.3</td><td>10</td></tr> <tr><td>E</td><td>8.2</td><td>8.8</td><td>8.5</td></tr> <tr><td>E1</td><td>9.5</td><td><b>10.5</b></td><td>--</td></tr> <tr><td>H</td><td>15</td><td>16</td><td>15.5</td></tr> <tr><td>L</td><td>1.5</td><td>2.5</td><td>2</td></tr> <tr> <td colspan="4" style="text-align: center;">All Dimensions in mm</td> </tr> </tbody> </table>	DO-218 (Type E)				Dim	Min	Max	Typ	A	4.7	5.7	--	A1	4.7	5.25	5	A2	3.45	<b>4.26</b>	3.95	A3	1.7	2.5	2	A4	<b>2.58</b>	3.55	3.1	b	2.3	3	--	c	0.45	0.9	--	D	13.2	13.8	13.5	D1	8.7	9.3	9	D2	9.7	10.3	10	E	8.2	8.8	8.5	E1	9.5	<b>10.5</b>	--	H	15	16	15.5	L	1.5	2.5	2	All Dimensions in mm			
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