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

PRODUCT CHANGE NOTICE PCN-2563 REV1

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
29 December, 2021	29 March, 2022	Discrete - Automotive	Additional Wafer Source Assembly Bill of Materials	**2563**

TITLE

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

DESCRIPTION OF CHANGE

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.

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).

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

Manufacturer's Notice:	https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/
For More Information Contact:	https://www.diodes.com/about/contact-us/contact-sales/
Data Sheet:	https://www.diodes.com/catalog/

DISCLAIMER

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.

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

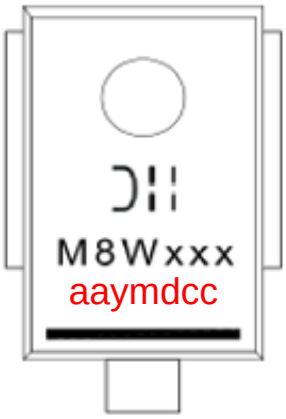
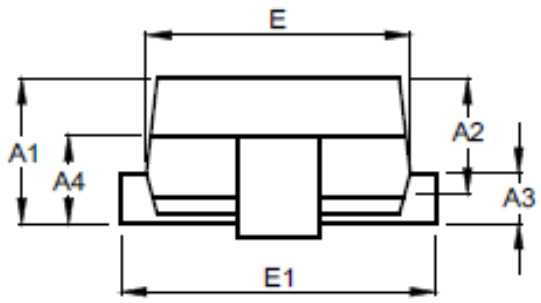
DM8WxxA(Q) marking example (Before)	**DM8WxxA(Q) marking example (After)**
Marking format example	Marking format example
	
M8WxxA = Product Type Marking Code (i.e. M8W18A for DM8W18AQ-13) ↃIIIII = Manufacturers Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 0 for 2020) WW = Week Code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

Table 3 – Package Outline Dimension (POD) Changes



<table>
<tr><th>Package</th><th>From : Before</th><th>Change To : After</th></tr>
<tr><td>DO-218
(Type E)</td><td>
<table>
<tr><th colspan="4">DO-218
(Type E)</th></tr>
<tr><th>Dim</th><th>Min</th><th>Max</th><th>Typ</th></tr>
<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">All Dimensions in mm</td></tr>
</table>
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<tr><td>A2</td><td>3.45</td><td>4.26</td><td>3.95</td></tr>
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<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>
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