



DATE: 1 June, 2022

PCN #: 2588

PCN Title: Qualification of Additional Clip Bonding, Lead Frame Structure (Matrix) and Mold Compound, and Qualification of Additional Diodes Internal Assembly & Test Site (SSEC) for Select Discrete 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-2588 REV1

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
1 June, 2022	1 September, 2022	Discrete	Clip Bond, Lead Frame, Mold Compound, Additional Assembly & Test Site	2588
TITLE				
Qualification of Additional Clip Bonding, Lead Frame Structure (Matrix) and Mold Compound, and Qualification of Additional Diodes Internal Assembly & Test Site (SSEC) for Select Discrete Products				
DESCRIPTION OF CHANGE				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply and to improve assembly manufacturability, Diodes Incorporated has qualified additional clip bonding, lead frame structure (Matrix), and mold compound at Diodes subcontractor Eris Technology Corp. (ERIS) located in Taoyuan City, Taiwan for select discrete products.</p> <p>In addition, Diodes Incorporated has also qualified internal assembly and test (A/T) site (SSEC) located in Shanghai, China as an additional A/T site for select 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> <p>There will be no change to the Form, Fit or Function of affected products unless specifically indicated (see figures 1 – 5).</p>				
IMPACT				
No change in datasheet parameters and product performance				
PRODUCTS AFFECTED				
<p>Please see the affected parts in the following tables and comparison of package construction in figures below. Table 1: Additional lead frame structure (Matrix) Table 2: Additional lead frame structure (Matrix) and additional assembly and test site (SSEC) Table 3: Additional assembly and test site (SSEC)</p>				
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 - Additional lead frame structure (Matrix)

1SMB5920B-13	3.0SMCJ5.0A-13	B260BE-13	D24AP2WF-7	ES2D-13-F	RS3K-13-F
1SMB5921B-13	3.0SMCJ5.0CA-13	B260S1F-7	D26AP2WF-7	ES2DWF-7	RS3KB-13-F
1SMB5922B-13	3.0SMCJ6.0A-13	B270-13-F	D28AP2WF-7	ES2G-13-F	RS3M-13-F
1SMB5923B-13	3.0SMCJ6.0CA-13	B280-13-F	D33AP2WF-7	ES3A-13-F	RS3MB-13-F
1SMB5924B-13	3.0SMCJ6.5A-13	B290-13-F	D3V3AP2WF-7	ES3AB-13-F	S1AB-13-F
1SMB5925B-13	3.0SMCJ6.5CA-13	B3100-13-F	D5V0AP2WF-7	ES3B-13-F	S1BB-13-F
1SMB5926B-13	3.0SMCJ7.0A-13	B3100B-13-F	D6V0AP2WF-7	ES3BB-13-F	S1DB-13-F
1SMB5927B-13	3.0SMCJ7.0CA-13	B3100BE-13	D6V5AP2WF-7	ES3C-13-F	S1GB-13-F
1SMB5928B-13	3.0SMCJ7.5A-13	B320-13-F	D7V0AP2WF-7	ES3CB-13-F	S1JB-13-F
1SMB5929B-13	3.0SMCJ7.5CA-13	B320B-13-F	D7V5AP2WF-7	ES3D-13-F	S1KB-13-F
1SMB5930B-13	3.0SMCJ8.0A-13	B330-13-F	D8V0AP2WF-7	ES3DB-13-F	S1MB-13-F
1SMB5931B-13	3.0SMCJ8.0CA-13	B330B-13-F	D8V5AP2WF-7	MBR230S1F-7	S2A-13-F
1SMB5932B-13	3.0SMCJ8.5A-13	B340-13-F	D9V0AP2WF-7	RS1AB-13-F	S2B-13-F
1SMB5933B-13	3.0SMCJ8.5CA-13	B340B-13-F	DTVS12SP4UR-7	RS1BB-13-F	S2D-13-F
1SMB5934B-13	3.0SMCJ9.0A-13	B340CE-13	DTVS13SP4UR-7	RS1DB-13-F	S2G-13-F
1SMB5935B-13	3.0SMCJ9.0CA-13	B340LB-13-F	DTVS15SP4UR-7	RS1GB-13-F	S2J-13-F
1SMB5936B-13	B1100B-13-F	B350-13-F	DTVS16SP4UR-7	RS1JB-13-F	S2K-13-F
1SMB5937B-13	B1100LB-13-F	B350B-13-F	DTVS17SP4UR-7	RS1KB-13-F	S2M-13-F
1SMB5938B-13	B120B-13-F	B360-13-F	DTVS18SP4UR-7	RS1MB-13-F	S3A-13-F
1SMB5939B-13	B130B-13-F	B360B-13-F	DTVS20SP4UR-7	RS1MWF-7	S3AB-13-F
1SMB5940B-13	B130LB-13-F	B370-13-F	DTVS22SP4UR-7	RS2A-13-F	S3B-13-F
1SMB5941B-13	B140B-13-F	B380-13-F	DTVS24SP4UR-7	RS2B-13-F	S3BB-13-F
1SMB5942B-13	B140HB-13-F	B380B-13-F	DTVS26SP4UR-7	RS2D-13-F	S3D-13-F
1SMB5943B-13	B140S1F-7	B390-13-F	DTVS28SP4UR-7	RS2G-13-F	S3DB-13-F
1SMB5944B-13	B150B-13-F	B520C-13-F	DTVS33SP4UR-7	RS2J-13-F	S3G-13-F
1SMB5945B-13	B160B-13-F	B530C-13-F	DTVS3V3SP4UR-7	RS2K-13-F	S3GB-13-F
1SMB5946B-13	B160S1F-7	B540C-13-F	DTVS5V0SP4UR-7	RS2M-13-F	S3J-13-F
1SMB5947B-13	B170B-13-F	B550C-13-F	DTVS6V0SP4UR-7	RS3A-13-F	S3JB-13-F
1SMB5948B-13	B180B-13-F	B560C-13-F	DTVS6V5SP4UR-7	RS3AB-13-F	S3K-13-F
1SMB5949B-13	B190B-13-F	D12AP2WF-7	DTVS7V0SP4UR-7	RS3B-13-F	S3KB-13-F
1SMB5950B-13	B2100-13-F	D13AP2WF-7	DTVS7V5SP4UR-7	RS3BB-13-F	S3M-13-F
1SMB5951B-13	B220-13-F	D15AP2WF-7	DTVS8V0SP4UR-7	RS3D-13-F	S3MB-13-F
1SMB5952B-13	B230-13-F	D16AP2WF-7	DTVS8V5SP4UR-7	RS3DB-13-F	S5AC-13-F
1SMB5953B-13	B240-13-F	D17AP2WF-7	DTVS9V0SP4UR-7	RS3G-13-F	S5BC-13-F
1SMB5954B-13	B240S1F-7	D18AP2WF-7	ES2A-13-F	RS3GB-13-F	S5DC-13-F
1SMB5955B-13	B250-13-F	D20AP2WF-7	ES2B-13-F	RS3J-13-F	S5GC-13-F
1SMB5956B-13	B260-13-F	D22AP2WF-7	ES2C-13-F	RS3JB-13-F	S5JC-13-F

Table 1 Cont. - Additional lead frame structure (Matrix)

S5KC-13-F	SBR3U40S1F-7	SMBJ5.0A-13-F	SMBJ8.0A-13-F	SMCJ5.0A-13-F	SMCJ8.0A-13-F
S5MC-13-F	SDM160S1F-7	SMBJ5.0CA-13-F	SMBJ8.0CA-13-F	SMCJ5.0CA-13-F	SMCJ8.0CA-13-F
S8KC-13	SDM1U100S1F-7	SMBJ6.0A-13-F	SMBJ8.5A-13-F	SMCJ6.0A-13-F	SMCJ8.5A-13-F
S8MC-13	SDM2100S1F-7	SMBJ6.0CA-13-F	SMBJ8.5CA-13-F	SMCJ6.0CA-13-F	SMCJ8.5CA-13-F
S8NC-13	SDT5A100SB-13	SMBJ6.5A-13-F	SMBJ9.0A-13-F	SMCJ6.5A-13-F	SMCJ9.0A-13-F
SBR140S1F-7	SDT5H100SB-13	SMBJ6.5CA-13-F	SMBJ9.0CA-13-F	SMCJ6.5CA-13-F	SMCJ9.0CA-13-F
SBR2M100SB-13	SF1JWF-7	SMBJ7.0A-13-F	SMCJ200A-13-F	SMCJ7.0A-13-F	US1DWF-7
SBR2M60S1F-7	SMBJ180A-13-F	SMBJ7.0CA-13-F	SMCJ200CA-13-F	SMCJ7.0CA-13-F	US1GWF-7
SBR2U60S1F-7	SMBJ180CA-13-F	SMBJ7.5A-13-F	SMCJ220A-13-F	SMCJ7.5A-13-F	US1NWF-7
SBR3150SB-13	SMBJ200A-13-F	SMBJ7.5CA-13-F	SMCJ220CA-13-F	SMCJ7.5CA-13-F	US3M-13
SBR3M100SB-13	SMBJ200CA-13-F				

Table 2 - Additional lead frame structure (Matrix) and additional assembly and test site (SSEC)

SMBJ100A-13-F	3.0SMCJ160CA-13	3.0SMCJ36CA-13	3.0SMCJ78CA-13	SMBJ150CA-13-F	SMBJ30CA-13-F
3.0SMCJ100A-13	3.0SMCJ16A-13	3.0SMCJ40A-13	3.0SMCJ85A-13	SMBJ15A-13-F	SMBJ33A-13-F
3.0SMCJ100CA-13	3.0SMCJ16CA-13	3.0SMCJ40CA-13	3.0SMCJ85CA-13	SMBJ15CA-13-F	SMBJ33CA-13-F
3.0SMCJ10A-13	3.0SMCJ170A-13	3.0SMCJ43A-13	3.0SMCJ90A-13	SMBJ160A-13-F	SMBJ36A-13-F
3.0SMCJ10CA-13	3.0SMCJ170CA-13	3.0SMCJ43CA-13	3.0SMCJ90CA-13	SMBJ160CA-13-F	SMBJ36CA-13-F
3.0SMCJ110A-13	3.0SMCJ17A-13	3.0SMCJ45A-13	SMBJ100CA-13-F	SMBJ16A-13-F	SMBJ40A-13-F
3.0SMCJ110CA-13	3.0SMCJ17CA-13	3.0SMCJ45CA-13	SMBJ10A-13-F	SMBJ16CA-13-F	SMBJ40CA-13-F
3.0SMCJ11A-13	3.0SMCJ18A-13	3.0SMCJ48A-13	SMBJ10CA-13-F	SMBJ170A-13-F	SMBJ43A-13-F
3.0SMCJ11CA-13	3.0SMCJ18CA-13	3.0SMCJ48CA-13	SMBJ110A-13-F	SMBJ170CA-13-F	SMBJ43CA-13-F
3.0SMCJ120A-13	3.0SMCJ20A-13	3.0SMCJ51A-13	SMBJ110CA-13-F	SMBJ17A-13-F	SMBJ45A-13-F
3.0SMCJ120CA-13	3.0SMCJ20CA-13	3.0SMCJ51CA-13	SMBJ11A-13-F	SMBJ17CA-13-F	SMBJ45CA-13-F
3.0SMCJ12A-13	3.0SMCJ22A-13	3.0SMCJ54A-13	SMBJ11CA-13-F	SMBJ18A-13-F	SMBJ48A-13-F
3.0SMCJ12CA-13	3.0SMCJ22CA-13	3.0SMCJ54CA-13	SMBJ120A-13-F	SMBJ18CA-13-F	SMBJ48CA-13-F
3.0SMCJ130A-13	3.0SMCJ24A-13	3.0SMCJ58A-13	SMBJ120CA-13-F	SMBJ20A-13-F	SMBJ51A-13-F
3.0SMCJ130CA-13	3.0SMCJ24CA-13	3.0SMCJ58CA-13	SMBJ12A-13-F	SMBJ20CA-13-F	SMBJ51CA-13-F
3.0SMCJ13A-13	3.0SMCJ26A-13	3.0SMCJ60A-13	SMBJ12CA-13-F	SMBJ22A-13-F	SMBJ54A-13-F
3.0SMCJ13CA-13	3.0SMCJ26CA-13	3.0SMCJ60CA-13	SMBJ130A-13-F	SMBJ22CA-13-F	SMBJ54CA-13-F
3.0SMCJ14A-13	3.0SMCJ28A-13	3.0SMCJ64A-13	SMBJ130CA-13-F	SMBJ24A-13-F	SMBJ58A-13-F
3.0SMCJ14CA-13	3.0SMCJ28CA-13	3.0SMCJ64CA-13	SMBJ13A-13-01-F	SMBJ24CA-13-F	SMBJ58CA-13-F
3.0SMCJ150A-13	3.0SMCJ30A-13	3.0SMCJ70A-13	SMBJ13A-13-F	SMBJ26A-13-F	SMBJ60A-13-F
3.0SMCJ150CA-13	3.0SMCJ30CA-13	3.0SMCJ70CA-13	SMBJ13CA-13-F	SMBJ26CA-13-F	SMBJ60CA-13-F
3.0SMCJ15A-13	3.0SMCJ33A-13	3.0SMCJ75A-13	SMBJ14A-13-F	SMBJ28A-13-F	SMBJ64A-13-F
3.0SMCJ15CA-13	3.0SMCJ33CA-13	3.0SMCJ75CA-13	SMBJ14CA-13-F	SMBJ28CA-13-F	SMBJ64CA-13-F
3.0SMCJ160A-13	3.0SMCJ36A-13	3.0SMCJ78A-13	SMBJ150A-13-F	SMBJ30A-13-F	SMBJ70A-13-F

Table 2 Cont. - Additional lead frame structure (Matrix) and additional assembly and test site (SSEC)

SMBJ70CA-13-F	SMCJ110CA-13-F	SMCJ15A-13-F	SMCJ22A-13-F	SMCJ40A-13-F	SMCJ60A-13-F
SMBJ75A-13-F	SMCJ11A-13-F	SMCJ15CA-13-F	SMCJ22CA-13-F	SMCJ40CA-13-F	SMCJ60CA-13-F
SMBJ75CA-13-F	SMCJ11CA-13-F	SMCJ160A-13-F	SMCJ24A-13-F	SMCJ43A-13-F	SMCJ64A-13-F
SMBJ78A-13-F	SMCJ120A-13-F	SMCJ160CA-13-F	SMCJ24CA-13-F	SMCJ43CA-13-F	SMCJ64CA-13-F
SMBJ78CA-13-F	SMCJ120CA-13-F	SMCJ16A-13-F	SMCJ26A-13-F	SMCJ45A-13-F	SMCJ70A-13-F
SMBJ85A-13-F	SMCJ12A-13-F	SMCJ16CA-13-F	SMCJ26CA-13-F	SMCJ45CA-13-F	SMCJ70CA-13-F
SMBJ85CA-13-F	SMCJ12CA-13-F	SMCJ170A-13-F	SMCJ28A-13-F	SMCJ48A-13-F	SMCJ75A-13-F
SMBJ90A-13-F	SMCJ130A-13-F	SMCJ170CA-13-F	SMCJ28CA-13-F	SMCJ48CA-13-F	SMCJ75CA-13-F
SMBJ90CA-13-F	SMCJ130CA-13-F	SMCJ17A-13-F	SMCJ30A-13-F	SMCJ51A-13-F	SMCJ78A-13-F
SMBT70A-13-F	SMCJ13A-13-F	SMCJ17CA-13-F	SMCJ30CA-13-F	SMCJ51CA-13-F	SMCJ78CA-13-F
SMCJ100A-13-F	SMCJ13CA-13-F	SMCJ18A-13-F	SMCJ33A-13-F	SMCJ54A-13-F	SMCJ85A-13-F
SMCJ100CA-13-F	SMCJ14A-13-F	SMCJ18CA-13-F	SMCJ33CA-13-F	SMCJ54CA-13-F	SMCJ85CA-13-F
SMCJ10A-13-F	SMCJ14CA-13-F	SMCJ20A-13-F	SMCJ36A-13-F	SMCJ58A-13-F	SMCJ90A-13-F
SMCJ10CA-13-F	SMCJ150A-13-F	SMCJ20CA-13-F	SMCJ36CA-13-F	SMCJ58CA-13-F	SMCJ90CA-13-F
SMCJ110A-13-F	SMCJ150CA-13-F				

Table 3 - Additional assembly and test site (SSEC)

SMAJ100A-13-F	SMAJ130CA-13-F	SMAJ170A-13-F	SMAJ26CA-13-F	SMAJ45A-13-F	SMAJ64A-13-F
SMAJ100CA-13-F	SMAJ13A-13-F	SMAJ170CA-13-F	SMAJ28A-13-F	SMAJ45CA-13-F	SMAJ64CA-13-F
SMAJ10A-13-F	SMAJ13CA-13-F	SMAJ17A-13-F	SMAJ28CA-13-F	SMAJ48A-13-F	SMAJ70A-13-F
SMAJ10CA-13-F	SMAJ14A-13-F	SMAJ17CA-13-F	SMAJ30A-13-F	SMAJ48CA-13-F	SMAJ70CA-13-F
SMAJ110A-13-F	SMAJ14CA-13-F	SMAJ18A-13-F	SMAJ30CA-13-F	SMAJ51A-13-F	SMAJ75A-13-F
SMAJ110CA-13-F	SMAJ150A-13-F	SMAJ18CA-13-F	SMAJ33A-13-F	SMAJ51CA-13-F	SMAJ75CA-13-F
SMAJ11A-13-F	SMAJ150CA-13-F	SMAJ20A-13-F	SMAJ33CA-13-F	SMAJ54A-13-F	SMAJ78A-13-F
SMAJ11CA-13-F	SMAJ15A-13-F	SMAJ20CA-13-F	SMAJ36A-13-F	SMAJ54CA-13-F	SMAJ78CA-13-F
SMAJ120A-13-F	SMAJ15CA-13-F	SMAJ22A-13-F	SMAJ36CA-13-F	SMAJ58A-13-F	SMAJ85A-13-F
SMAJ120CA-13-F	SMAJ160A-13-F	SMAJ22CA-13-F	SMAJ40A-13-F	SMAJ58CA-13-F	SMAJ85CA-13-F
SMAJ12A-13-F	SMAJ160CA-13-F	SMAJ24A-13-F	SMAJ40CA-13-F	SMAJ60A-13-F	SMAJ90A-13-F
SMAJ12CA-13-F	SMAJ16A-13-F	SMAJ24CA-13-F	SMAJ43A-13-F	SMAJ60CA-13-F	SMAJ90CA-13-F
SMAJ130A-13-F	SMAJ16CA-13-F	SMAJ26A-13-F	SMAJ43CA-13-F		

Figure 1: Comparison of SMB Package Construction for SKY, GPP, Zener and Unidirectional TVS products

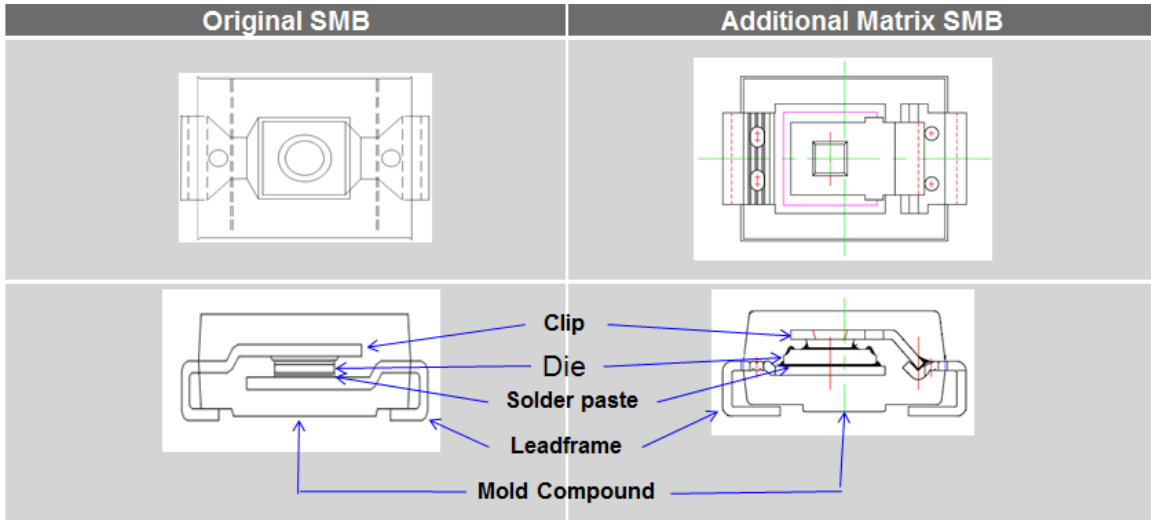


Figure 2: Comparison of SMB Package Construction for Bidirectional TVS products

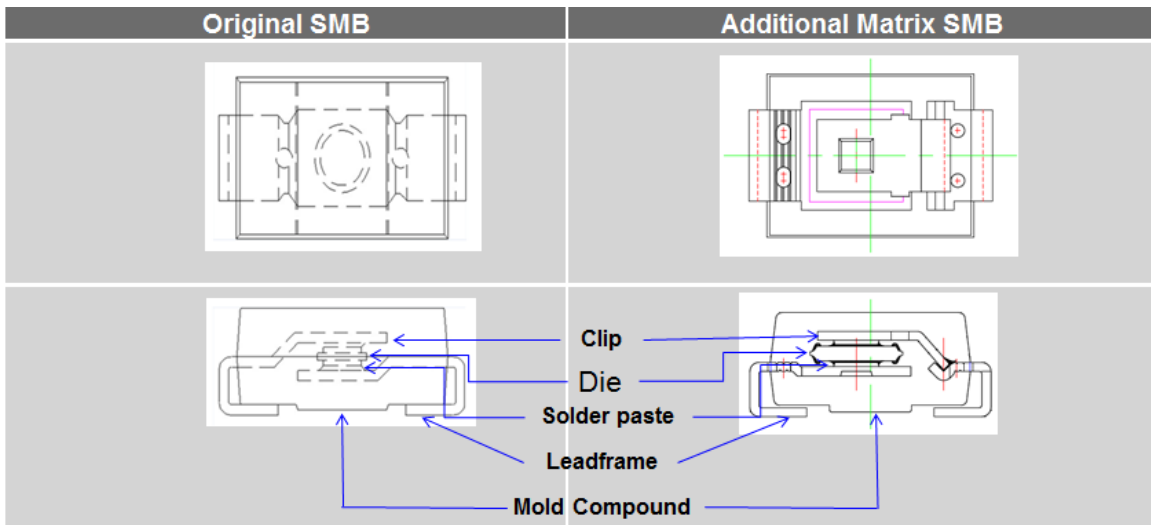


Figure 3: Comparison of SMC Package Construction for SKY, GPP and Unidirectional TVS products

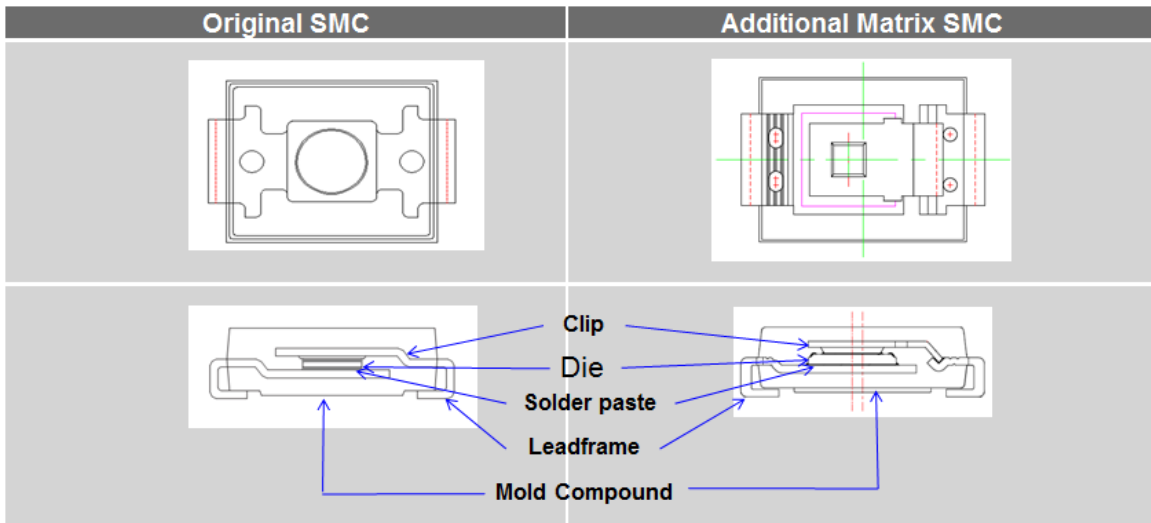


Figure 4: Comparison of SMC Package Construction for Bidirectional TVS products

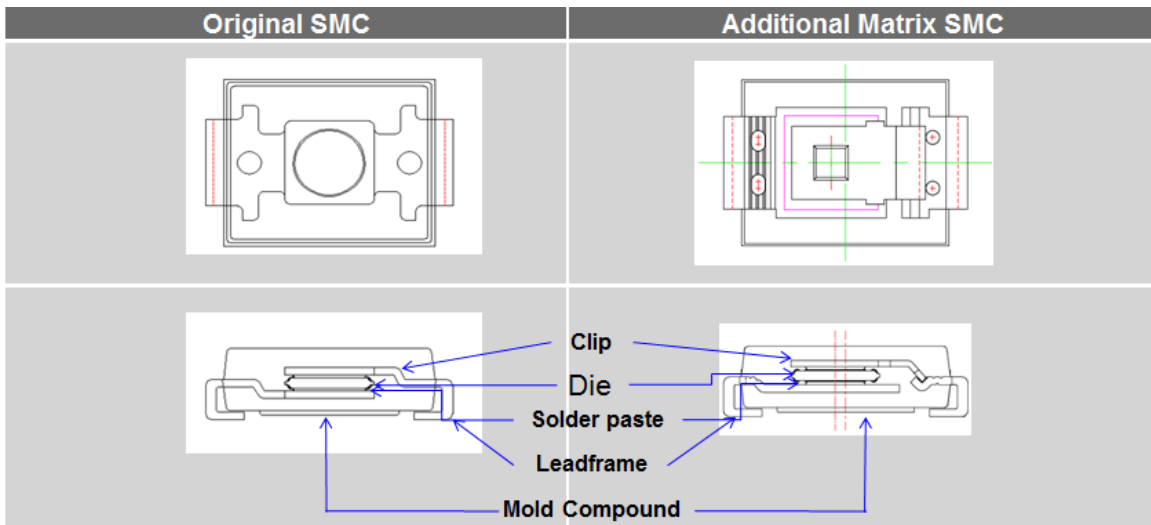


Figure 5: Comparison of SOD-123F Package Construction for SKY, SBR and GPP products

