



DATE: 7th December, 2018

PCN #: 2374 Rev 2

PCN Title: Qualification of "Diodes Technology (Cheng Du) Company Limited" (CAT) as an Additional Assembly & Test Site, Conversion to Palladium Coated Copper Bond Wire with New Molding Compound, and Qualification of Alternative Die Source on Select 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 within 30 days as well. Otherwise, samples may not be built prior to this change. 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-2374 REV 2

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
7 th December, 2018	7 th March, 2019	Discrete Semiconductors	Additional Assembly & Test Site / Additional Die Source / Bond Wire Material / Molding Compound Type / Part Top Marking	2374
TITLE				
Qualification of "Diodes Technology (Chengdu) Company Limited" (CAT) as an Additional Assembly & Test Site, Conversion to Palladium Coated Copper Bond Wire with New Molding Compound, and/or Qualification of Alternative Die Source on Select Products				
DESCRIPTION OF CHANGE				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes has qualified an additional Diodes internal Assembly and Test site (CAT) in Chengdu, China, qualified Palladium Coated Copper (PdCu) bond wire with new molding compound at CAT, and/or qualified additional die source for select products listed in this PCN.</p> <p>Full electrical characterization and high reliability testing has been completed on representative part numbers to ensure there is no change to device functionality or electrical specifications in the datasheet. Refer to the attached qualification / reliability report (embedded in this file).</p>				
IMPACT				
Continuity of Supply. No change in data sheet electrical parameters and/or product performance. Some packages will have top marking changes as outlined in tables 6 – 19 below.				
PRODUCTS AFFECTED				
<p>REV 2: The following part numbers were removed from Table 1:</p> <p>2N7002A-7 2N7002W-7-F DMN66D0LDW-7 DMP2035U-7 DMG6402LDM-7 DMN6040SVT-7 DMP2240UW-7 DMP2305UVT-7 DMN6075S-7 DMN6075S-13</p> <hr/> <p>Please see the parts list below in the following Tables: Table 1 - Affected Part List to add CAT as the additional A/T Site. Table 2 - Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire with new molding compound at CAT. Table 3 - Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal OFAB (Diodes Zetex Semiconductors Limited) as an alternate die source. Table 4 - Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Phenitec as an alternate die source. Table 5 - Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT,</p>				



and qualify Diodes internal SFAB1 (Shanghai SIM-BCD Semiconductor Manufacturing Company, Ltd.) as an alternate die source.

- Table 6 - Mark Code Format - DFN1212
- Table 7 - Mark Code Format – DFN1610
- Table 8 - Mark Code Format – DFN2020
- Table 9 - Mark Code Format – DFN2510
- Table 10 - Mark Code Format – SOD-123
- Table 11 - Mark Code Format – SOD-323
- Table 12 - Mark Code Format – SOT-223
- Table 13 - Mark Code Format – SOT-23
- Table 14 - Mark Code Format – SOT-26
- Table 15 - Mark Code Format – SOT-323
- Table 16 - Mark Code Format – SOT-363
- Table 17 - Mark Code Format – SOT-523
- Table 18 - Mark Code Format – SSOT-23
- Table 19 - Mark Code Format – TSOT23-6

WEB LINKS

Manufacturer's Notice:	https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/
For More Information Contact:	http://www.diodes.com/contacts
Data Sheet:	http://www.diodes.com/products

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 Part List to add CAT as the additional A/T Site

2N7002H-13	BAT54CTA	DMG2301LK-7	DMN2041UFDB-7	DMN62D0LFD-7	DMP2021UFDF-7
2N7002H-7	BAT54DW-7-F	DMG2302UK-13	DMN2046U-7	DMN62D0U-13	DMP2023UFDF-13
B0520LW-7-F	BAT54JW-7-F	DMG2302UK-7	DMN2050LFDB-13	DMN62D0U-7	DMP2023UFDF-7
B0530W-7-F	BAT54SDW-7-F	DMG302PU-7	DMN2050LFDB-7	DMN62D0UDW-7	DMP2035U-13
B0540W-7-F	BAT54STA	DMG3404L-7	DMN2056U-7	DMN62D0UW-13	DMP2035UFDF-7
B130LAW-7-F	BAT54TA	DMG3406L-13	DMN2058U-7	DMN62D0UW-7	DMP2039UFDE-7
B140HW-7	BAT54TW-7-F	DMG3406L-7	DMN2058UW-7	DMN62D1LFD-13	DMP2040UFDF-7
B140WS-7	BAT750-7-F	DMN1004UFDF-7	DMN3016LFDE-13	DMN62D1LFD-7	DMP2045U-7
BAS40-05-13-F	BAT750TA	DMN1008UFDF-13	DMN3016LFDE-7	DMN63D1L-13	DMP2060UFDB-7
BAS40-06-13-F	BSS138K-13	DMN1008UFDF-7	DMN3016LFD-7	DMN63D1L-7	DMP2065UFDB-13
BAS40BRW-7-F	BSS138K-7	DMN1014UFDF-7	DMN3020UFDF-7	DMN63D1LDW-7	DMP2065UFDB-7
BAS40DW-04-7-F	D12V0H1U2LP1610-7	DMN1019UFDE-7	DMN3021LFD-7	DMN63D1LW-7	DMP2066UFDE-7
BAS40DW-05-7-F	D14V0H1U2LP1610-7	DMN1025UFDB-7	DMN3025LFD-7	DMN63D8L-7	DMP2075UFDB-7
BAS40DW-06-7-F	D26V0H1U2LP20-7	DMN1029UFDB-7	DMN3032LFDB-7	DMN63D8LW-13	DMP2120U-13
BAS40TW-7-F	D3V3F4U10LP-7	DMN10H120SE-13	DMN3042L-13	DMN63D8LW-7	DMP2120U-7
BAS70BRW-7-F	D3V3X4U10LP-7	DMN10H170SFDE-7	DMN3042L-7	DMN67D7L-7	DMP2160UFDB-7
BAS70DW-04-13-F	D5V0F4U10LP-7	DMN10H170SVT-7	DMN3042LFD-7	DMN67D8L-7	DMP2165UW-7
BAS70DW-04-7-F	D5V0H1U2LP1610-7	DMN10H700S-13	DMN3055LFDB-13	DMN67D8LW-13	DMP2170U-7
BAS70DW-05-7-F	D5V0S1U2LP1610-7	DMN10H700S-7	DMN3055LFDB-7	DMP1005UFDF-7	DMP25H18DLFDE-7
BAS70DW-06-7-F	D60V0L4B10LP-7	DMN2011UFDE-13	DMN30H4D0LFDE-7	DMP1009UFDF-7	DMP3026SFDF-13
BAS70JW-7-F	D6V3H1U2LP16-7	DMN2011UFDE-7	DMN31D5L-7	DMP1022UFDE-7	DMP3026SFDF-7
BAS70TW-13-F	D7V9H1U2LP1610-7	DMN2011UFDF-7	DMN4020LFDE-7	DMP1022UFDF-13	DMP3028LFDE-13
BAS70TW-7-F	DMC1028UFDB-7	DMN2013UFDE-7	DMN4020SVT-7	DMP1022UFDF-7	DMP3028LFDE-7
BAT1000-7-F	DMC1029UFDB-7	DMN2015UFDE-13	DMN6040SFDE-7	DMP1046UFDB-13	DMP3056L-7
BAT400D-7-F	DMC1030UFDB-7	DMN2015UFDE-7	DMN61D9U-7	DMP1046UFDB-7	DMP3056LVT-7
BAT54ADW-7-F	DMC1229UFDB-13	DMN2015UFDF-7	DMN61D9UDW-13	DMP1055UFDB-7	DMP3068L-7
BAT54ATA	DMC1229UFDB-7	DMN2022UFDF-7	DMN61D9UDW-7	DMP10H4D2S-7	DMP3125L-7
BAT54BRW-7-F	DMC2025UFDB-7	DMN2028UFDF-7	DMN61D9UW-13	DMP2021UFDE-13	DMP32D4SW-13
BAT54CDW-7-F	DMC2041UFDB-7	DMN2040U-7	DMN61D9UW-7	DMP2021UFDE-7	DMP4047LFDE-7



Table 1 – Affected Part List to add CAT as the additional A/T Site, Cont'd

DMP4065S-13	DMT2004UFDF-13	DMT6016LFDF-13	SBR130S3-7	SDM2U20SD3-7	ZHCS500TA
DMP4065S-7	DMT2004UFDF-7	DMT6016LFDF-7	SBR160S23-7	SDM40E20LA-7	ZHCS506TA
DMP510DL-7	DMT3006LFDF-7	DSS4160FDB-7	SBR1A40S1-7	SDM40E20LC-7	ZHCS750TA
DMP610DL-7	DMT3008LFDF-7	DSS5160FDB-7	SBR1A40S3-7	SDM40E20LS-7-F	ZLLS1000TA
DMP6110SFDF-13	DMT3020LFDB-7	DT1140-04LP-7	SBRT05U20S3-7	ZHCS1000TA	ZLLS2000TA
DMP6110SFDF-7	DMT3020LFDF-7	DT1240-04LP-7	SD103ASDM-7-F	ZHCS1000TC	ZLLS400TA
DMP6110SVT-13	DMT4008LFDF-7	DT1240A-04LP-7	SD103ATW-7-F	ZHCS2000TA	ZLLS400TC
DMP6110SVT-7	DMT5015LFDF-13	DT1240E-04LP-7	SDM100K30L-7	ZHCS400TA	ZLLS410TA
DMP6350S-7	DMT5015LFDF-7	DT1240V3-04LP-7	SDM20N40A-7	ZHCS400TC	ZLLS500TA
DMS2220LFDB-7	DMT6013LFDF-7	SBR0560S1-7			

Table 2 – Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire with new molding compound at CAT

2DA1774R-7-F	BAV99T-7-G	DDTA114WE-7-F	DDTC115TE-7-F	DMN2300UFD-7	DMP21D0UT-7
2DA1774S-7-F	BAW156T-7-F	DDTA123JE-7-F	DDTC122LE-7-F	DMN2400UFD-7	DMP21D5UFD-7
2DA2018-7	BAW56T-7-F	DDTA123YE-7-F	DDTC123JE-7-F	DMN2450UFD-7	DMP21D6UFD-7
2DC4617R-7-F	BZX84C10T-7-F	DDTA124XE-7-F	DDTC123YE-7-F	DMN26D0UT-7	DMP22D6UT-7
2DC4617S-7-F	BZX84C12T-7-F	DDTA142TE-7-F	DDTC124EE-7-F	DMN313DLT-7	MMBD4448HT-7-F
2N7002T-13-G	BZX84C15T-7-F	DDTA143EE-7-F	DDTC124TE-7-F	DMN33D8LT-13	MMBD4448HTA-7-F
2N7002T-7-F	BZX84C18T-7-F	DDTA143TE-7-F	DDTC124XE-7-F	DMN33D8LT-7	MMBD4448HTC-7-F
2N7002T-7-G	BZX84C22T-7-F	DDTA143XE-7-F	DDTC142JE-7-F	DMN53D0LT-7	MMBD4448HTS-7-F
BAS116T-7-F	BZX84C2V4T-7-F	DDTA143ZE-7-F	DDTC142TE-7-F	DMN55D0UT-7	MMBT4401T-7-F
BAS16T-7-F	BZX84C2V7T-7-F	DDTA144EE-7-F	DDTC143EE-7-F	DMN5L06TK-7	MMBZ5221BT-7-F
BAS21T-7-F	BZX84C30T-7-F	DDTA144WE-7-F	DDTC143TE-7-F	DMN601TK-7	MMBZ5225BT-7-F
BAT54AT-7-F	BZX84C33T-7-F	DDTC113TE-7-F	DDTC143XE-7-F	DMN62D0SFD-7	MMBZ5226BT-7-F
BAT54CT-7-F	BZX84C4V3T-7-F	DDTC113ZE-7-F	DDTC143ZE-7-F	DMN62D0UT-7	MMBZ5227BT-7-F
BAT54ST-7-F	BZX84C5V1T-7-F	DDTC114EE-7-F	DDTC144EE-7-F	DMN63D0LT-7	MMBZ5232BT-7-F
BAT54T-7-F	BZX84C5V6T-7-F	DDTC114TE-7-F	DDTC144TE-7-F	DMN63D1LT-7	MMBZ5235BT-7-F
BAV170T-7-F	BZX84C6V2T-7-F	DDTC114WE-7-F	DDTC144WE-7-F	DMN66D0LT-7	MMBZ5241BT-7-F
BAV199T-7-F	BZX84C6V8T-7-F	DDTC114YE-7-F	DMG1012T-7	DMP2004TK-7	MMBZ5248BT-7-F
BAV99T-13-F	DDTA113TE-7-F	DDTC115EE-7-F	DMG1013T-7	DMP2039UFDE4-7	MMBZ5258BT-7-F
BAV99T-7-F	DDTA114EE-7-F	DDTC115GE-7-F	DMN2004TK-7	DMP21D0UFD-7	

Table 3 – Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal OFAB (Diodes Zetex Semiconductors Limited) as an alternate die source

BC847AT-7-F	BC857AT-7-F	BC857CT-7-F	MMBT2907AT-7-F	MMBT3904T-7-F	MMBT3906T-7-F
BC847BT-7-F	BC857BT-7-F	MMBT2222AT-7-F	MMBT3904T-13-F	MMBT3906T-13-F	MMBT4403T-7-F
BC847CT-7-F					

Table 4 – Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Phenitec as an alternate die source

BAV70T-7-F	MMBZ5234BT-7-F				
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Table 5 – Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal SFAB1 (Shanghai SIM-BCD Semiconductor Manufacturing Company, Ltd.) as an alternate die source

BAS40-04T-7-F	BAS40-06T-7-F	BAS70-04T-7-F	BAS70-06T-7-F	BAS70T-7-F	BAS70T-7-G
BAS40-05T-7-F	BAS40T-7-F	BAS70-05T-7-F			


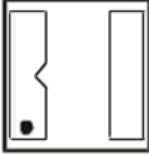
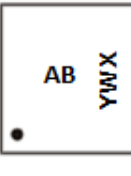
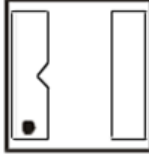
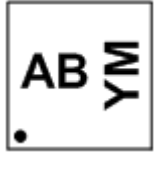
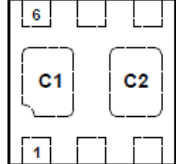
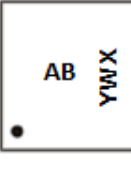
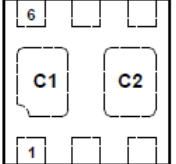
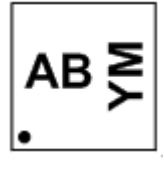
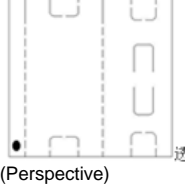
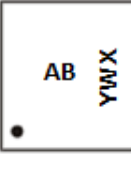
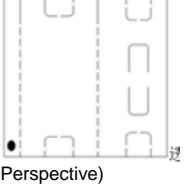
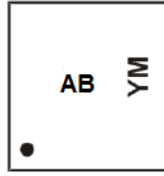
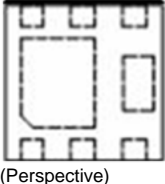
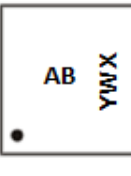
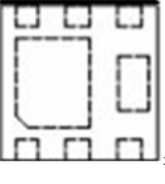
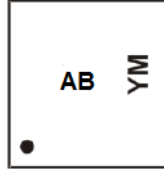
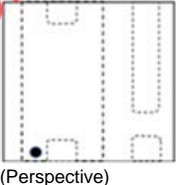
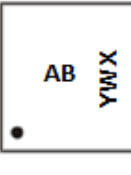
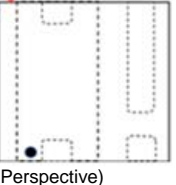
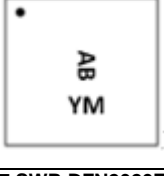
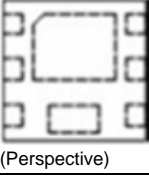
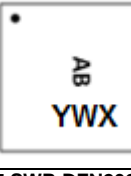
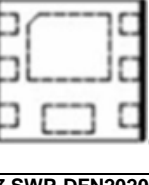
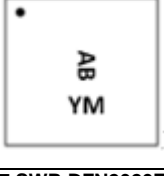
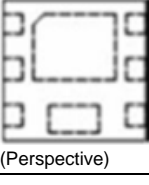
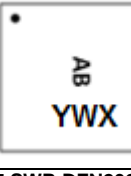
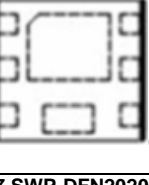
Table 6 - Mark Code Format - DFN1212

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo(PlanForm,Perspective - from top to bottom)		Marking orientation photo(PlanForm,Perspective - from top to bottom)	
1.DFN1212-3		1.DFN1212-3	
(Top)	(Perspective)	(Top)	(Perspective)
2.DFN1212C-3		2. DFN1212C-3	
(Top)	(Perspective)	(Top)	(Perspective)

Table 7 - Mark Code Format – DFN1610

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo(Plan Form,Perspective - from top to bottom)		Marking orientation photo(Plan Form, Perspective - from top to bottom)	
1.DFN1610B-2		1.DFN1610B-2	
(Top)	(Perspective)	(Top)	(Perspective)

Table 8 - Mark Code Format – DFN2020

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo(PlanForm,Perspective,from top to bottom)		Marking orientation photo(PlanForm,Perspective -from top to bottom)	
1.DFN2020-2		1.DFN2020-2	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
2.DFN2020B-6		2.DFN2020B-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
3. DFN2020E-6		3. DFN2020E-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
4.DFN2020F-6		4.DFN2020F-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
5.DFN2020H4-6		5.DFN2020H4-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
6. DFN2020W-6		6. DFN2020W-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
7.SWP-DFN2020E-6		7.SWP-DFN2020E-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)

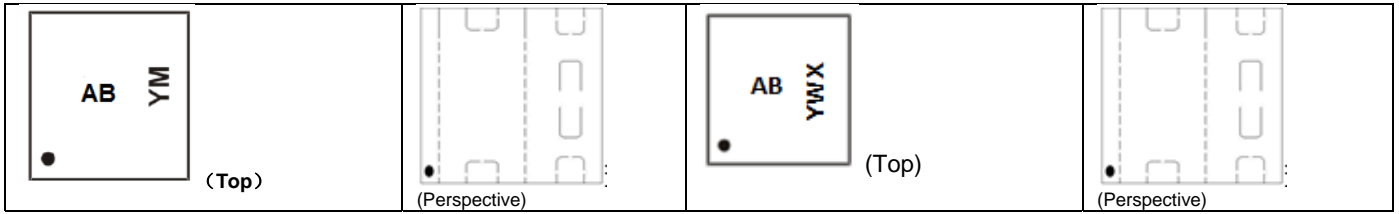


Table 9 - Mark Code Format – DFN2510

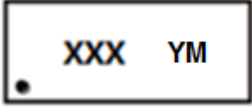
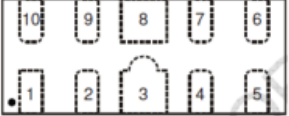
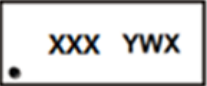

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site
Marking orientation photo(planform,perspective -from top to bottom)	Marking orientation photo(planform,perspective -from top to bottom)
DFN2510-10	DFN2510-10
 <p align="center">(Top)</p>	 <p align="center">(Perspective)</p>
 <p align="center">(Top)</p>	 <p align="center">(Perspective)</p>

Table 10 - Mark Code Format –SOD-123

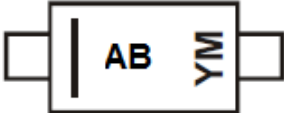
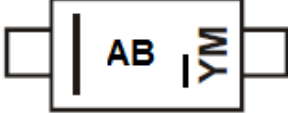
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add "-"on Y for CAT site
Marking format example	Marking format example
	

Table 11 - Mark Code Format –SOD-323

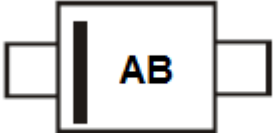
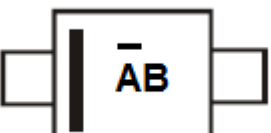
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add "-"on first character for CAT site
Marking format example	Marking format example
	

Table 12 - Mark Code Format –SOT-223

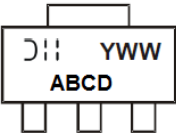
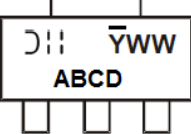
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add "-"on Y for CAT site
Marking format example	Marking format example
	

Table 13 - Mark Code Format –SOT-23

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

Table 14 - Mark Code Format –SOT-26

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

Table 15 - Mark Code Format –SOT-323

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

Table 16 - Mark Code Format –SOT-363

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

Table 17 - Mark Code Format –SOT-523

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

Table 18 - Mark Code Format –SSOT-23

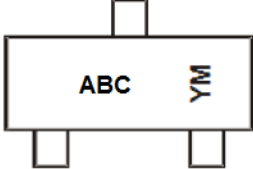
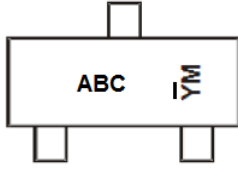
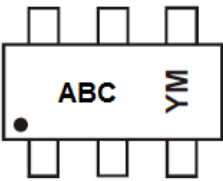
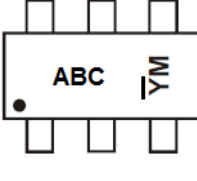
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example
	

Table 19 - Mark Code Format –TSOT23-6

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example
	

Remark: YWX is date code

Y is year code:0~9

W is week code:1~26 use A~Z to display

27--53 use a~z, z displayed 52 and 53 week

X is internal code: lot schedule start date

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Green	T	U	V	W	X	Y	Z
Lead Free	t	u	v	w	x	y	z