



DATE: 29<sup>th</sup> April, 2013

PCN #: 2094

PCN Title: Qualification of "Diodes Technology (Cheng Du) Company Limited" (DTC) as an Additional Assembly & Test Site for SOP-8, SOT-23, SOT-223, SOT-323, SOT-363, SSOT-23, and SOD-323 Packaged Parts, Qualification of Alternative Die, and Conversion to Copper Bond Wire on Select Products at Diodes SKE/DSH (Shanghai Kaihong Electronic Co./Diodes Inc. Shanghai)

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-2094 REV00**

<b>Notification Date:</b>	<b>Implementation Date:</b>	<b>Product Family:</b>	<b>Change Type:</b>	<b>PCN #:</b>
29 <sup>th</sup> April, 2013	28 <sup>th</sup> July, 2013	Discrete and Analog Semiconductors	Additional Assembly & Test Site / Bond Wire Material / Wafer FAB Material	<b>2094</b>
<b>TITLE</b>				
Qualification of "Diodes Technology (Cheng Du) Company Limited" (DTC) as an Additional Assembly & Test Site for SOP-8, SOT-23, SOT-223, SOT-323, SOT-363, SSOT-23, and SOD-323 Packaged Parts, Qualification of Alternative Die, and Conversion to Copper Bond Wire on Select Discrete Products at Diodes SKE/DSH (Shanghai Kaihong Electronic Co./Diodes Inc. Shanghai)				
<b>DESCRIPTION OF CHANGE</b>				
This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes has qualified "Diodes Technology (Cheng Du) Company Limited" (DTC) located in Chengdu, China as an additional Assembly & Test Site for select SOP-8, SOT-23, SOT-223, SOT-323, SOT-363, SSOT-23, and SOD-323 packaged parts using Copper bond wire.  For part numbers marked with (*) in Table 2, Diodes has qualified Copper bond wire at Diodes SKE/DSH (Shanghai Kaihong Electronic Co./Diodes Inc. Shanghai) Assembly & Test Sites.  In addition, for part numbers marked with (**) in Table 2, Diodes has also qualified alternative die from the existing wafer fabrication source (Diodes internal FabTech Inc. – KFAB).  Full electrical characterization and high reliability testing is being completed on representative part numbers built using Copper bond wire and/or alternative die to ensure there is no change to device functionality or electrical specifications in the datasheet.  Part marking for devices manufactured at DTC is shown in Appendix A. There will be no change to the part marking of devices manufactured at existing sites.				
<b>IMPACT</b>				
Continuity of Supply. No change in data sheet parameters or product performance.				
<b>PRODUCTS AFFECTED</b>				
Please refer to Table 1 for Affected Analog Devices Please refer to Table 2 for Affected Discrete Devices				
<b>WEB LINKS</b>				
<b>Manufacturer's Notice:</b>	<a href="http://www.diodes.com/quality/pcns">http://www.diodes.com/quality/pcns</a>			
<b>For More Information Contact:</b>	<a href="http://www.diodes.com/contacts">http://www.diodes.com/contacts</a>			
<b>Data Sheet:</b>	<a href="http://www.diodes.com/products">http://www.diodes.com/products</a>			
<b>DISCLAIMER</b>				
<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 - PCN 2094 Affected Analog Devices**

AP358SG-13	TL431BSA-7	AP1117E25G-13	AP1117IE33G-13	AP2171DSG-13
LM358S-13	TL432BSA-7	AP1117E33G-13	AP1117IE50G-13	AP2181DSG-13
AP2331SA-7	ZXRE250ASA-7	AP1117E50G-13	AP431ASAG-7	AP2191DSG-13
ZTL431AFTA	ZXRE250BSA-7	AP1122EG-13	AP431SAG-7	AP2141SG-13
ZTL431BFTA	ZXRE252ASA-7	AP1117IEG-13	AP431ASRG-7	AP2151SG-13
ZTL432AFTA	ZXRE252BSA-7	AP1122IEG-13	AP431SRG-7	AP2161SG-13
ZTL432AF-7	AP1117EG-13	AP1117IE15G-13	AP2141DSG-13	AP2171SG-13
ZTL432BFTA	AP1117E15G-13	AP1117IE18G-13	AP2151DSG-13	AP2181SG-13
TL431ASA-7	AP1117E18G-13	AP1117IE25G-13	AP2161DSG-13	AP2191SG-13
TL432ASA-7				

**Table 2 - PCN 2094 Affected Discrete Devices**

DMG4406LSS-13	DMP2004WK-7	DDZ47S-7	BCP5310TA	FZT956TA
DMG4407SSS-13	BSN20-7	DDZ5V1BS-7	BCP5316TA	FZT968TA
DMG4413LSS-13	DMG2301U-7	DDZ5V6BS-7	BCP53TA	FZTA14TA
DMG4435SSS-13	DMG2302U-7	DDZ6V2BS-7	BCP5410TA	DMJT9435-13
DMG4466SSS-13	DMG2307L-7	DDZ6V8CS-7	BCP5416TA	DJT4030P-13(*)
DMG4466SSSL-13	DMG3413L-7	DDZ9682S-7	BCP54TA	DJT4031N-13(*)
DMG4496SSS-13	DMG3414U-7	DDZ9683S-7	BCP5510TA	DSS60600MZ4-13(*)
DMG4710SSS-13	DMG3415U-13	DDZ9684S-7	BCP5516TA	DSS60601MZ4-13(*)
DMG4812SSS-13	DMG3415U-7	DDZ9685S-7	BCP55TA	ZX5T1951GTA(*)
DMG8880LSS-13	DMG3420U-7	DDZ9686S-7	BCP5610TA	ZX5T849GTA(*)
DMN2009LSS-13	DMG6968U-7	DDZ9687S-7	BCP5616TA	ZX5T851GTA(*)
DMN2027USS-13	DMN2041L-7	DDZ9688S-7	BCP56TA	ZX5T853GTA(*)
DMN2028USS-13	DMN2050L-7	DDZ9690S-7	FZT1047ATA	ZX5T949GTA(*)
DMN3007LSS-13	DMN2075U-7	DDZ9691S-7	FZT1048ATA	ZX5T951GTA(*)
DMN3010LSS-13	DMN3051L-7	DDZ9692S-7	FZT1049ATA	ZX5T953GTA(*)
DMN3018SSS-13	DMN3110S-7	DDZ9693S-7	FZT1049ATC	ZX5T955GTA(*)

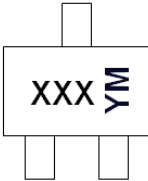
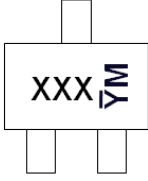
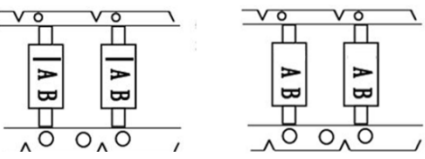
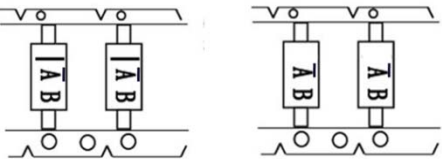
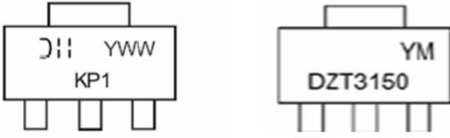
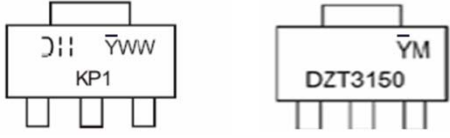
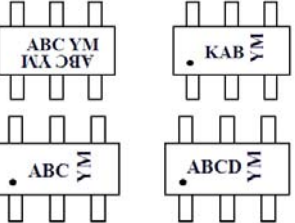
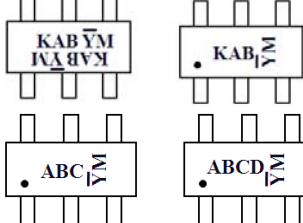
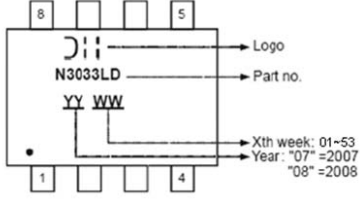
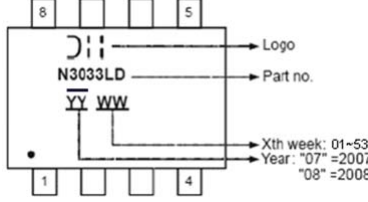
**Table 2 - PCN 2094 Affected Discrete Devices**

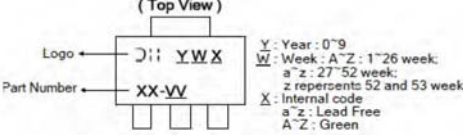
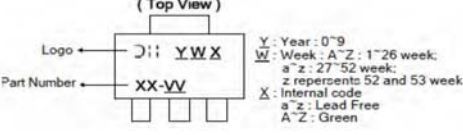
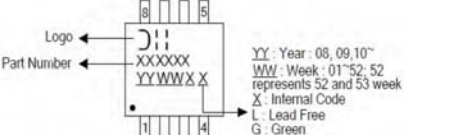
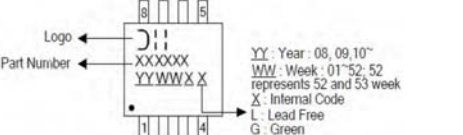
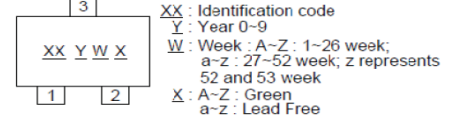
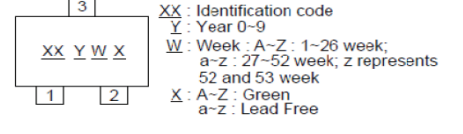
DMN3030LSS-13	DMN3112S-7	DDZ9694S-7	FZT1051ATA	ZX5T955GTC(*)
DMN3031LSS-13	DMN3150L-7	DDZ9696S-7	FZT1051ATC	ZXTN2005GTA(*)
DMN3052LSS-13	DMN3200U-7	DDZ9698S-7	FZT1053ATA	ZXTN2007GTA(*)
DMN3112SSS-13	DMN3404L-7	DDZ9699S-7	FZT1149ATA	ZXTN2010GTA(*)
DMN4468LSS-13	DMP1045U-7	DDZ9700S-7	FZT1151ATA	ZXTN2011GTA(*)
DMN4800LSS-13	DMP2035U-7	DDZ9701S-7	FZT491ATA	ZXTP2008GTA(*)
DMN4800LSSL-13	DMP2123L-7	DDZ9702S-7	FZT491TA	ZXTP2012GTA(*)
DMP2066LSS-13	DMP2130L-7	DDZ9703S-7	FZT493TA	ZXTP2013GTA(*)
DMP3015LSS-13	DMP2160U-7	DDZ9705S-7	FZT549TA	ZXTP2014GTA(*)
DMP3020LSS-13	DMP2215L-7	DDZ9707S-7	FZT589TA	ZXTP4003GTA(*)
DMP3035LSS-13	DMP2225L-7	DDZ9708S-7	FZT591ATA	BC807-16W-7(*)
DMP3056LSS-13	DMP2305U-7	DDZ9709S-7	FZT591TA	BC807-25W-7(*)
DMP3098LSS-13	DMP3098L-7	DDZ9711S-7	FZT593TA	BC807-40W-7(*)
DMP4015SSS-13	DMP3120L-7	DDZ9712S-7	FZT600BTA	BC817-16W-7(*)
DMS3016SSS-13	DMP3130L-7	DDZ9713S-7	FZT600TA	BC817-25W-7(*)
DMS3016SSSA-13	DMP3160L-7	DDZ9714S-7	FZT603TA	BC817-40W-7(*)
DMC2020USD-13	BZT52C10S-7-F	DDZ9715S-7	FZT605TA	BC846AW-7-F(*)
DMC3018LSD-13	BZT52C11S-7-F	DDZ9716S-7	FZT605TC	BC846BW-13-F
DMC3021LSD-13	BZT52C12S-7-F	DDZ9717S-7	FZT649TA	BC846BW-7-F
DMC3032LSD-13	BZT52C13S-7-F	DDZ9V1CS-7	FZT649TC	BC847AW-7-F
DMC3036LSD-13	BZT52C15S-7-F	UDZ10B-7	FZT651TA	BC847BW-13-F(*)
DMG4800LSD-13	BZT52C16S-7-F	UDZ15B-7	FZT651TC	BC847BW-7-F
DMG4822SSD-13	BZT52C18S-7-F	UDZ3V6B-7	FZT653TA	BC847CW-13-F(*)
DMG6898LSD-13	BZT52C20S-7-F	UDZ3V9B-7	FZT653TC	BC847CW-7-F
DMG9926USD-13	BZT52C22S-7-F	UDZ4V3B-7	FZT655TA	BC848AW-7-F(*)
DMG9933USD-13	BZT52C24S-7-F	UDZ6V2B-7	FZT688BTA	BC848BW-7-F(*)
DMN2041LSD-13	BZT52C27S-7-F	UDZ6V8B-7	FZT689BTA	BC848CW-7-F(*)
DMN3033LSD-13	BZT52C2V4S-7-F	UDZ7V5B-7	FZT690BTA	BC856AW-7-F(*)
DMN4031SSD-13	BZT52C2V7S-7-F	UDZ8V2B-7	FZT692BTA	BC856BW-13-F
DMP2066LSD-13	BZT52C30S-7-F	UDZ9V1B-7	FZT694BTA	BC856BW-7-F
DMP3056LSD-13	BZT52C33S-7-F	B0520WS-7-F	FZT705TA	BC857AW-7-F(*)
DMP3098LSD-13	BZT52C36S-7-F	B0530WS-7-F	FZT705TC	BC857BW-7-F

**Table 2 - PCN 2094 Affected Discrete Devices**

2N7002DW-7-F	BZT52C39S-7-F	B0540WS-7	FZT749TA	BC857CW-7-F(*)
BSS138DW-7-F	BZT52C3V0S-7-F	BAT42WS-7-F	FZT749TC	BC858AW-7-F(*)
BSS8402DW-13-F	BZT52C3V3S-7-F	BAT43WS-7-F	FZT751TA	BC858BW-7-F(*)
BSS8402DW-7-F	BZT52C3V6S-7-F	BAT54WS-7-F	FZT751TC	BC858CW-7-F(*)
BSS84DW-13-F	BZT52C3V9S-7-F	BAT760-7	FZT753TA	MMST2222A-7-F
BSS84DW-7-F	BZT52C4V3S-7-F	SD107WS-7-F	FZT753TC	MMST2907A-7-F
DMG1016UDW-7	BZT52C4V7S-7-F	SDM10K45-7-F	FZT755TA	MMST3906-7-F
DMN2004DWK-7	BZT52C51S-7	BAT54AW-7-F	FZT788BTA	MMST4126-7-F(*)
DMN601DWK-7	BZT52C5V1S-7-F	BAT54CW-7-F	FZT789ATA	MMST4401-7-F(*)
DMN62D4SDW-7	BZT52C5V6S-7-F	BAT54SW-7-F	FZT790ATA	MMST4403-7-F(*)
DMN65D8LDW-7	BZT52C6V2S-7-F	BAT54W-7-F	FZT790ATC	MMST5401-13-F(*)
DMN66D0LDW-7	BZT52C6V8S-7-F	SBR0330CW-7	FZT792ATA	MMST5401-7-F(*)
DMP2004DWK-7	BZT52C7V5S-7-F	BAT54-13-F	FZT795ATA	MMST5551-7-F(*)
2N7002W-7-F	BZT52C8V2S-7-F	BAT54-7-F	FZT849TA	MMSTA05-7-F(*)
BSS123W-7-F	BZT52C9V1S-7-F	BAT54A-13-F	FZT851TA	MMSTA06-7-F(*)
BSS138W-7-F	DDZ12CS-7	BAT54A-7-F	FZT853TA	MMSTA13-7-F(*)
BSS84W-7-F	DDZ16S-7	BAT54C-7-F	FZT855TA	MMSTA14-7-F(*)
DMG1012UW-7	DDZ18CS-7	BAT54S-7-F	FZT869TA	MMSTA55-7-F(*)
DMG1013UW-7	DDZ22DS-7	BCP5110TA	FZT948TA	MMSTA56-7-F(*)
DMN2004WK-7	DDZ24CS-7	BCP5116TA	FZT949TA	MMSTA63-7-F(*)
DMN5L06WK-7	DDZ27DS-7	BCP51TA	FZT951TA	MMSTA64-7-F(*)
DMN601WK-7	DDZ33S-7	BCP5210TA	FZT951TC	MMST3904-7-F(**)
DMN65D8LW-7	DDZ36S-7	BCP5216TA	FZT953TA	MMST4124-7-F(*)(**)
DMN66D0LW-7	DDZ43S-7	BCP52TA	FZT955TA	

**Appendix A:**

Package	Part Marking at Existing Sites	DTC Marking Examples
Discrete SOT-23/ SSOT-23/ SOT-323		 <p>* This part marking format will also be implemented for parts included in PCN-2061 and PCN-2070.</p>
Discrete SOD-323		
Discrete SOT-223		
Discrete SOT-363		
Discrete SOP-8	 <p>Logo Part no. Xth week: 01-53 Year: *07* =2007       *08* =2008</p>	 <p>Logo Part no. Xth week: 01-53 Year: *07* =2007       *08* =2008</p>

Package	Part Marking at Existing Sites	DTC Marking Examples
<b>Analog SOT-223</b>	<p align="center">( Top View )</p>  <p>Y : Year : 0~9  W : Week : A~Z : 1~26 week;  a~z : 27~52 week;  z represents 52 and 53 week  X : Internal code  a~z : Lead Free  A~Z : Green</p> <p><b>Internal Code : 'A' – 'M'</b></p>	<p align="center">( Top View )</p>  <p>Y : Year : 0~9  W : Week : A~Z : 1~26 week;  a~z : 27~52 week;  z represents 52 and 53 week  X : Internal code  a~z : Lead Free  A~Z : Green</p> <p><b>Internal Code : 'N' – 'Z'</b></p>
<b>Analog SOP-8</b>	 <p>YY : Year : 08, 09, 10~  WW : Week : 01~52; 52  represents 52 and 53 week  X : Internal Code  L : Lead Free  G : Green</p> <p><b>Internal Code : 'A' – 'M'</b></p>	 <p>YY : Year : 08, 09, 10~  WW : Week : 01~52; 52  represents 52 and 53 week  X : Internal Code  L : Lead Free  G : Green</p> <p><b>Internal Code : 'N' – 'Z'</b></p>
<b>Analog SOT-23</b>	 <p>XX : Identification code  Y : Year 0~9  W : Week : A~Z : 1~26 week;  a~z : 27~52 week; z represents  52 and 53 week  X : A~Z : Green  a~z : Lead Free</p> <p align="center">↑ <b>Internal Code</b></p> <p><b>Internal Code : 'A' – 'M'</b></p>	 <p>XX : Identification code  Y : Year 0~9  W : Week : A~Z : 1~26 week;  a~z : 27~52 week; z represents  52 and 53 week  X : A~Z : Green  a~z : Lead Free</p> <p align="center">↑ <b>Internal Code</b></p> <p><b>Internal Code : 'N' – 'Z'</b></p>