



DATE: 21 April, 2017

PCN #: 2269

PCN Title: Qualification of Alternative Wafer Sources for Select Automotive Products Due to Closure of Diodes FabTech (KFAB) Facility

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 be implemented immediately.

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-2269 REV 00**

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Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
21 April, 2017	Immediately	Discrete - Automotive	Alternative Wafer Sources	<b>2269</b>
<b>TITLE</b>				
Qualification of Alternative Wafer Sources for Select Automotive Products Due to Closure of Diodes FabTech (KFAB) Facility				
<b>DESCRIPTION OF CHANGE</b>				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply due to the closure of the Diodes FabTech (KFAB) Facility (see link below), Diodes Incorporated has qualified, or is in the process of qualifying(*) alternative wafer sources for select Automotive part numbers.</p> <p><a href="http://investor.diodes.com/news-releases/news-release-details/diodes-incorporated-reports-fourth-quarter-and-fiscal-2016">http://investor.diodes.com/news-releases/news-release-details/diodes-incorporated-reports-fourth-quarter-and-fiscal-2016</a></p> <p>Full electrical characterization and high reliability testing has been completed or will be completed(*) on representative part numbers to ensure there is no change to device functionality or electrical specifications in the datasheet.</p> <p>(*)Shipment of production material built with alternate die sources will be gated by the successful completion of qualification.</p> <p>There will be no change to the Form, Fit, or Function of products affected.</p>				
<b>IMPACT</b>				
Continuity of Supply. No change in datasheet parameters or product performance				
<b>PRODUCTS AFFECTED</b>				
Table 1 – Qualification of Phenitec as Alternate Die Source Table 2 – Qualification of Diodes Internal SFAB1 (Shanghai SIM-BCD Semiconductor Manufacturing Company, Ltd.) as Alternate Die Source Table 3 – Qualification of both Phenitec and Diodes Internal SFAB1 as Alternate Die Sources Table 4 - Parts Affected by KFAB shutdown but that Previously had an Alternate Die Source Qualified and Released to Production				
<b>WEB LINKS</b>				
<b>Manufacturer's Notice:</b>	<a href="http://www.diodes.com/pcns">http://www.diodes.com/pcns</a>			
<b>For More Information Contact:</b>	<a href="http://www.diodes.com/contacts.html">http://www.diodes.com/contacts.html</a>			
<b>Data Sheet:</b>	<a href="http://www.diodes.com/catalog">http://www.diodes.com/catalog</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 – Qualification of Phenitec as Alternate Die Source**

1N4448WQ-7-F	BZX84C39Q-13-F	DDZ5V1BQ-7	DDZ9696Q-7	DDZ9V1BQ-7	MMBZ5234BQ-7-F
1N4448WSQ-7-F	BZX84C39Q-7-F	DDZ5V6BQ-7	DDZ9697Q-13	DDZ9V1CQ-7	MMBZ5237BQ-7-F
AZ23C20Q-13-F	BZX84C43Q-13-F	DDZ6V2BQ-13	DDZ9697Q-7	DDZX10CQ-7	MMBZ5244BQ-7-F
AZ23C20Q-7-F	BZX84C43Q-7-F	DDZ6V2BQ-7	DDZ9698Q-13	DDZX11CQ-7	MMBZ5248BQ-7-F
BAS16HTWQ-13	BZX84C47Q-13-F	DDZ6V8BQ-7	DDZ9698Q-7	DDZX12CQ-7	MMBZ5254BQ-7-F
BAS16HTWQ-13R	BZX84C47Q-7-F	DDZ6V8CQ-7	DDZ9699Q-13	DDZX13BQ-7	MMBZ6V8ALQ-7-F
BAS16TWQ-13R-F	BZX84C51Q-13-F	DDZ7V5BQ-7	DDZ9699Q-7	DDZX14Q-7	MMBZ9V1ALQ-7-F
BAS21DWAQ-7	BZX84C51Q-7-F	DDZ7V5CQ-7	DDZ9700Q-13	DDZX15Q-7	MMDT2907AQ-7-F
BAS21TMQ-13	DDZ10BQ-7	DDZ8V2BQ-7	DDZ9700Q-7	DDZX16Q-7	MMST2907AQ-7
BAS21TWQ-7	DDZ10CQ-7	DDZ8V2CQ-7	DDZ9701Q-7	DDZX18CQ-7	MMST3904Q-7-F
BAV116HWFQ-7	DDZ11BQ-7	DDZ9678Q-13	DDZ9702Q-13	DDZX20CQ-7	MMSZ5221BQ-13-F
BAV116WSQ-7	DDZ11CQ-7	DDZ9678Q-7	DDZ9702Q-7	DDZX22DQ-7	MMSZ5221BQ-7-F
BAV199DWWQ-7-F	DDZ12BQ-7	DDZ9681Q-13	DDZ9703Q-13	DDZX24CQ-7	MMSZ5233BQ-13-F
BAV23CQ-13-F	DDZ12CQ-7	DDZ9681Q-7	DDZ9703Q-7	DDZX27DQ-7	MMSZ5233BQ-7-F
BAV23CQ-7-F	DDZ13BQ-7	DDZ9682Q-13	DDZ9704Q-13	DDZX30DQ-7	MMSZ5238BQ-13-F
BAV70HDWQ-13	DDZ14BQ-7	DDZ9682Q-7	DDZ9704Q-7	DDZX33Q-7	MMSZ5238BQ-7-F
BAV70Q-13-F	DDZ14Q-7	DDZ9683Q-13	DDZ9705Q-13	DDZX36Q-7	
BAV70Q-7-F	DDZ15Q-7	DDZ9683Q-7	DDZ9705Q-7	DDZX39FQ-7	
BAV99HDWQ-13	DDZ16BQ-7	DDZ9684Q-7	DDZ9707Q-13	DDZX43Q-7	
BAV99TQ-13-F	DDZ16Q-7	DDZ9685Q-13	DDZ9707Q-7	DDZX5V1BQ-7	
BAW101Q-7	DDZ17Q-7	DDZ9685Q-7	DDZ9708Q-13	DDZX5V6BQ-7	
BAW56HDWQ-13	DDZ18CQ-7	DDZ9686Q-13	DDZ9708Q-7	DDZX6V2BQ-7	
BZT52C12TQ-7	DDZ19Q-7	DDZ9686Q-7	DDZ9709Q-13	DDZX6V8CQ-7	
BZT52C12TQ-7-F	DDZ20CQ-7	DDZ9687Q-13	DDZ9709Q-7	DDZX7V5CQ-7	
BZT52C15SQ-7-F	DDZ21Q-7	DDZ9687Q-7	DDZ9711Q-13	DDZX8V2CQ-7	
BZT52C22TQ-7	DDZ22DQ-7	DDZ9688Q-13	DDZ9711Q-7	DDZX9V1CQ-7	
BZT52C22TQ-7-F	DDZ23Q-7	DDZ9688Q-7	DDZ9712Q-13	DFLT18AQ-7	
BZT52C24TQ-7-F	DDZ24CQ-7	DDZ9689Q-7	DDZ9712Q-7	DFLT22AQ-7	
BZT52C2V0Q-7-F	DDZ26Q-7	DDZ9690Q-7	DDZ9713Q-13	DFLT33AQ-7	
BZT52C30SQ-7-F	DDZ27DQ-7	DDZ9691Q-13	DDZ9713Q-7	DFLT40AQ-7	
BZT52C39SQ-7-F	DDZ28Q-7	DDZ9691Q-7	DDZ9714Q-13	DFLT5V0AQ-7	
BZT52C3V0Q-7-F	DDZ30DQ-7	DDZ9692Q-13	DDZ9714Q-7	DZ23C15Q-7-F	
BZT52C4V7TQ-7	DDZ31Q-7	DDZ9692Q-7	DDZ9715Q-13	MMBD4448HADWQ-7-F	
BZT52C4V7TQ-7-F	DDZ33Q-7	DDZ9693Q-13	DDZ9715Q-7	MMBZ15VALQ-7-F	
BZT52C9V1SQ-7-F	DDZ34Q-7	DDZ9693Q-7	DDZ9716Q-13	MMBZ15VDLQ-7-F	
BZT52C9V1TQ-7-F	DDZ36Q-7	DDZ9694Q-13	DDZ9716Q-7	MMBZ18VALQ-7-F	
BZT585B12TQ-7	DDZ39FQ-7	DDZ9694Q-7	DDZ9717Q-13	MMBZ27VCLQ-7-F	
BZT585B5V1TQ-7	DDZ43Q-7	DDZ9696Q-13	DDZ9717Q-7	MMBZ33VALQ-7-F	

**Table 2 – Qualification of SFAB1 (Shanghai SIM-BCD Semiconductor Manufacturing Company, Ltd.) as Alternate Die Source**

B0530WSQ-13-F	B240AQ-13-F	B380Q-13-F	BAT54Q-13	DFLZ15Q-7	PDS3100Q-13
B0530WSQ-7-F	B240Q-13-F	B390Q-13-F	BAT54Q-7-F	DFLZ16Q-7	PDS3100Q-7
B0540WQ-7-F	B250AQ-13-F	B520CQ-13-F	BAT54SDWQ-7-F	DFLZ18Q-7	PDS3200Q-13
B1100BQ-13-F	B250Q-13	B530CQ-13-F	BAT54SQ-13	DFLZ20Q-7	PDS340Q-13
B1100Q-13-F	B250Q-13-F	B540CQ-13-F	BAT54SWQ-7-F	DFLZ22Q-7	PDS360Q-13
B120BQ-13-F	B260AQ-13-F	B550CQ-13-F	BAT54WQ-13-F	DFLZ24Q-7	PDS4150Q-13
B120Q-13-F	B260Q-13-F	B560CQ-13-F	BAT54WQ-7-F	DFLZ27Q-7	PDS4200HQ-13
B130BQ-13-F	B270Q-13-F	BAS40-04Q-13-F	BAT54WSQ-7-F	DFLZ30Q-7	PDS5100HQ-13
B130Q-13-F	B280Q-13-F	BAS40-04Q-7-F	BAT760Q-7	DFLZ33Q-7	PDS5100HQ-13D
B140BQ-13-F	B290Q-13-F	BAS40-05Q-13-F	DFLS1100Q-7	DFLZ36Q-7	PDS5100Q-13D
B140HWQ-7	B3100Q-13-F	BAS40-05Q-7-F	DFLS1150Q-7	DFLZ39Q-7	PDS540Q-13
B140Q-13-F	B320AQ-13-F	BAS40-06Q-13-F	DFLS1200Q-7	DFLZ5V1Q-7	PDS560Q-13
B150BQ-13-F	B320BQ-13-F	BAS40-06Q-7-F	DFLS120LQ-7	DFLZ5V6Q-7	PDS760Q-13
B150Q-13-F	B320Q-13-F	BAS40Q-13-F	DFLS130LQ-7	DFLZ6V2Q-7	SD103BWSQ-7-F
B160BQ-13-F	B330AQ-13-F	BAS40Q-7-F	DFLS140LQ-7	DFLZ6V8Q-7	SDM03U40Q-7
B160Q-13-F	B330BQ-13-F	BAS40TWQ-7-F	DFLS140Q-7	DFLZ7V5Q-7	SDM1M40LP8Q
B170BQ-13-F	B330Q-13-F	BAS70-04Q-13-F	DFLS160Q-7	DFLZ8V2Q-7	SDM20U30LPQ-7
B170Q-13-F	B340AQ-13-F	BAS70-04Q-7-F	DFLS2100Q-7	DFLZ9V1Q-7	SDM40E20LSQ-7-F
B180BQ-13-F	B340BQ-13-F	BAS70Q-7-F	DFLS230LQ-7	PD3S120LQ-7	ZHCS1000QTA
B180Q-13-F	B340Q-13-F	BAT1000Q-7-F	DFLS230Q-7	PD3S130HQ-7	ZHCS400QTA
B190BQ-13-F	B350AQ-13-F	BAT46WQ-7-F	DFLS240LQ-7	PD3S130LQ-7	ZHCS500QTA
B190Q-13-F	B350BQ-13-F	BAT54AQ-13	DFLS240Q-7	PD3S140Q-7	ZHCS506QTA
B2100Q-13-F	B350Q-13-F	BAT54AQ-7-F	DFLS260Q-7	PD3S160Q-7	ZHCS750QTA
B220AQ-13-F	B360AQ-13-F	BAT54AWQ-7-F	DFLZ10Q-7	PD3S220LQ-7	ZLLS2000QTA
B220Q-13-F	B360BQ-13-F	BAT54CQ-13	DFLZ11Q-7	PD3S230HQ-7	ZLLS400QTA
B230AQ-13-F	B360Q-13-F	BAT54CQ-7-F	DFLZ12Q-7	PD3S230LQ-7	ZLLS400QTC
B230Q-13-F	B370Q-13-F	BAT54CWQ-7-F	DFLZ13Q-7	PDS1040Q-13	ZLLS500QTA

**Table 3 – Qualification of both Phenitec and Diodes Internal SFAB1 as Alternate Die Sources**

B0520LWQ-7-F	BAS70TWQ-7-F	BAS70W-06Q-7-F	BAT54SQ-7-F	SD103AWSQ-7-F	ZHCS400QTC
BAS70-05Q-7-F	BAS70W-04Q-7-F	BAS70WQ-7-F	BAT54SWQ-13-F	SDM03U40Q	ZLLS1000QTA
BAS70DW-05Q-7-F	BAS70W-05Q-7-F	BAT54LPQ	BAT64T5Q	SDM20U30LPQ	

**Table 4 - Parts Affected by KFAB shutdown but that Previously had an Alternate Die Source Qualified and Released to Production**

1N4148WQ-13-F	BAV70WQ-7-F	BZT52C12SQ-7-F	BZT52C4V3TQ-7-F	BZX84C22Q-13-F	BZX84C8V2Q-13-F
1N4148WQ-7-F	BAV99DWQ-7-F	BZT52C13Q-7-F	BZT52C4V7Q-7-F	BZX84C22Q-7-F	BZX84C8V2Q-7-F
1N4148WSQ-13-F	BAV99Q-13-F	BZT52C13SQ-7-F	BZT52C4V7SQ-7-F	BZX84C24Q-13-F	BZX84C9V1Q-13-F
1N4148WSQ-7-F	BAV99Q-7-F	BZT52C15Q-7-F	BZT52C51Q-7-F	BZX84C24Q-7-F	BZX84C9V1Q-7-F
1N4148WTQ-7	BAV99WQ-7-F	BZT52C16Q-7-F	BZT52C5V1Q-7-F	BZX84C27Q-13-F	DXT690BP5Q-13
1N4448HWSQ-7-F	BAW156Q-13-F	BZT52C16SQ-7-F	BZT52C5V1SQ-7-F	BZX84C27Q-7-F	FCX491AQTA
1N4448WSFQ-7	BAW156Q-7-F	BZT52C18Q-7-F	BZT52C5V1TQ-7-F	BZX84C2V4Q-13-F	FCX491QTA
2DA1797Q-13	BAW56DWQ-7-F	BZT52C18SQ-7-F	BZT52C5V6Q-13-F	BZX84C2V4Q-7-F	FCX591AQTA
ASMCC0197Q-7	BAW56Q-13-F	BZT52C20Q-7-F	BZT52C5V6Q-7-F	BZX84C2V7Q-13-F	FCX619QTA
ASMCC0217Q-7	BAW56Q-7-F	BZT52C20SQ-7-F	BZT52C5V6SQ-13-F	BZX84C2V7Q-7-F	FMMT38CQTA
AZ23C27Q-7-F	BAW56WQ-7-F	BZT52C22Q-7-F	BZT52C5V6SQ-7-F	BZX84C30Q-13-F	FMMT491QTA
AZ23C5V6Q-7-F	BC817-40Q-13-F	BZT52C22SQ-7-F	BZT52C6V2Q-7-F	BZX84C30Q-7-F	FMMT491QTC
BAS116Q-13-F	BC817-40Q-7-F	BZT52C24Q-7-F	BZT52C6V2SQ-7-F	BZX84C33Q-13-F	FMMT555QTA
BAS116Q-7-F	BC846AQ-7-F	BZT52C24SQ-7-F	BZT52C6V2TQ-13-F	BZX84C33Q-7-F	FMMT591AQTA
BAS16Q-13-F	BC846ASQ-7-F	BZT52C27Q-7-F	BZT52C6V2TQ-7-F	BZX84C36Q-13-F	FMMT591AQTC
BAS16Q-7-F	BC846BQ-13-F	BZT52C27SQ-7-F	BZT52C6V8Q-7-F	BZX84C36Q-7-F	FMMT591QTA
BAS16WQ-7-F	BC846BQ-7-F	BZT52C2V4Q-7-F	BZT52C6V8SQ-7-F	BZX84C3V0Q-13-F	FMMT591QTC
BAS20DWQ-13	BC846BWQ-7-F	BZT52C2V7Q-7-F	BZT52C7V5Q-7-F	BZX84C3V0Q-7-F	FMMT593QTA
BAS20DWQ-7	BC847AQ-7-F	BZT52C2V7SQ-7-F	BZT52C7V5SQ-7-F	BZX84C3V3Q-13-F	FMMT618QTA
BAS20Q-13-F	BC847BQ-7-F	BZT52C30Q-7-F	BZT52C8V2Q-7-F	BZX84C3V3Q-7-F	FMMT619QTA
BAS20Q-7-F	BC847BSQ-7-F	BZT52C33Q-7-F	BZT52C8V2SQ-7-F	BZX84C3V6Q-13-F	FMMT620QTA
BAS21Q-13-F	BC847BWQ-13-F	BZT52C33SQ-7-F	BZT52C9V1Q-7-F	BZX84C3V6Q-7-F	FMMT625QTA
BAS21Q-7-F	BC847CQ-7-F	BZT52C36Q-7-F	BZX84C10Q-13-F	BZX84C3V9Q-13-F	FMMT634QTA
BAS21WQ-7-F	BC847CWQ-7-F	BZT52C36SQ-7-F	BZX84C10Q-7-F	BZX84C3V9Q-7-F	FMMT717QTA
BAV170Q-13-F	BC847PNQ-7-F	BZT52C39Q-7-F	BZX84C11Q-13-F	BZX84C4V3Q-13-F	FMMT718QTA
BAV170Q-7-F	BC847PNQ-7R-F	BZT52C3V0SQ-7-F	BZX84C11Q-7-F	BZX84C4V3Q-7-F	FMMT720QTA
BAV199Q-13-F	BC848CQ-7-F	BZT52C3V3Q-7-F	BZX84C12Q-13-F	BZX84C4V7Q-13-F	FMMT722QTA
BAV199Q-7-F	BCP5316QTA	BZT52C3V3SQ-7-F	BZX84C12Q-7-F	BZX84C4V7Q-7-F	FMMT723QTA
BAV199WQ-7	BCX5216QTA	BZT52C3V6Q-7-F	BZX84C13Q-13-F	BZX84C5V1Q-13-F	FMMTA92QTA
BAV20WQ-7-F	BCX5316QTA	BZT52C3V6SQ-7-F	BZX84C13Q-7-F	BZX84C5V1Q-7-F	FZT489QTA
BAV21WQ-7-F	BCX5316QTC	BZT52C3V6TQ-7-F	BZX84C15Q-13-F	BZX84C5V6Q-13-F	FZT491AQTA
BAV21WSQ-7-F	BCX5616QTA	BZT52C3V9Q-7-F	BZX84C15Q-7-F	BZX84C5V6Q-7-F	FZT591AQTA
BAV23AQ-13-F	BCX6825QTA	BZT52C3V9SQ-7-F	BZX84C16Q-13-F	BZX84C6V2Q-13-F	FZT692BQTA
BAV23AQ-7-F	BZT52C10Q-7-F	BZT52C3V9TQ-7-F	BZX84C16Q-7-F	BZX84C6V2Q-7-F	FZT751QTA
BAV23SQ-13-F	BZT52C10SQ-7-F	BZT52C43Q-7-F	BZX84C18Q-13-F	BZX84C6V8Q-13-F	FZT751QTC
BAV23SQ-7-F	BZT52C11Q-7-F	BZT52C47Q-7-F	BZX84C18Q-7-F	BZX84C6V8Q-7-F	FZT753QTC
BAV3004WQ-7-F	BZT52C11SQ-7-F	BZT52C4V3Q-7-F	BZX84C20Q-13-F	BZX84C7V5Q-13-F	FZT795AQTA
BAV70DWQ-7-F	BZT52C12Q-7-F	BZT52C4V3SQ-7-F	BZX84C20Q-7-F	BZX84C7V5Q-7-F	FZT857QTA

**Table 4 - Parts Affected by KFAB shutdown but that Previously had an Alternate Die Source Qualified and Released to Production, Cont'd**

FZT951QTA	MMBZ5221BQ-7-F	MMBZ5245BQ-7-F	MMSZ5229BQ-7-F	MMSZ5241BQ-7-F	MMSZ5255BQ-7-F
FZT951QTC	MMBZ5222BQ-7-F	MMBZ5246BQ-7-F	MMSZ5230BQ-13-F	MMSZ5242BQ-13-F	MMSZ5256BQ-13-F
FZT957QTA	MMBZ5223BQ-7-F	MMBZ5250BQ-7-F	MMSZ5230BQ-7-F	MMSZ5242BQ-7-F	MMSZ5256BQ-7-F
MMBD2004SQ-7-F	MMBZ5225BQ-7-F	MMBZ5251BQ-7-F	MMSZ5231BQ-13-F	MMSZ5243BQ-13-F	MMSZ5257BQ-13-F
MMBD2004SWQ-7-F	MMBZ5226BQ-7-F	MMBZ5252BQ-7-F	MMSZ5231BQ-7-F	MMSZ5243BQ-7-F	MMSZ5257BQ-7-F
MMBD3004CQ-7-F	MMBZ5227BQ-7-F	MMBZ5255BQ-7-F	MMSZ5232BQ-13-F	MMSZ5245BQ-13-F	MMSZ5258BQ-13-F
MMBD3004SQ-13-F	MMBZ5228BQ-7-F	MMBZ5256BQ-7-F	MMSZ5232BQ-7-F	MMSZ5245BQ-7-F	MMSZ5258BQ-7-F
MMBD3004SQ-7-F	MMBZ5229BQ-7-F	MMBZ5257BQ-7-F	MMSZ5234BQ-13-F	MMSZ5246BQ-13-F	MMSZ5259BQ-13-F
MMBD4448HAQW-7-F	MMBZ5230BQ-7-F	MMST5551Q-7-F	MMSZ5234BQ-7-F	MMSZ5246BQ-7-F	MMSZ5259BQ-7-F
MMBD4448HCQW-7-F	MMBZ5231BQ-7-F	MMSZ5223BQ-13-F	MMSZ5235BQ-13-F	MMSZ5248BQ-13-F	ZDT694QTA
MMBD4448HTMQ-7-F	MMBZ5232BQ-7-F	MMSZ5223BQ-7-F	MMSZ5235BQ-7-F	MMSZ5248BQ-7-F	ZXGD3003E6QTA
MMBD4448Q-7-F	MMBZ5233BQ-7-F	MMSZ5225BQ-13-F	MMSZ5236BQ-13-F	MMSZ5250BQ-13-F	ZXT1053AKQTC
MMBT2222AQ-7-F	MMBZ5235BQ-7-F	MMSZ5225BQ-7-F	MMSZ5236BQ-7-F	MMSZ5250BQ-7-F	ZXT690BKQTC
MMBT2907AQ-7-F	MMBZ5236BQ-7-F	MMSZ5226BQ-13-F	MMSZ5237BQ-13-F	MMSZ5251BQ-13-F	ZXT951KQTC
MMBT3904Q-7-F	MMBZ5238BQ-7-F	MMSZ5226BQ-7-F	MMSZ5237BQ-7-F	MMSZ5251BQ-7-F	ZXTC2045E6QTA
MMBT3906Q-7-F	MMBZ5239BQ-7-F	MMSZ5227BQ-13-F	MMSZ5239BQ-13-F	MMSZ5252BQ-13-F	ZXTC6717MCQTA
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MMBTA55Q-13-F	MMBZ5243BQ-7-F	MMSZ5229BQ-13-F	MMSZ5241BQ-13-F	MMSZ5255BQ-13-F	