



## Additional Wafer Fabrication Capacity for Vishay Siliconix ICs

**DESCRIPTION OF CHANGE:** To meet increasing demand, Vishay Siliconix has expanded capacity for additional IC wafer fabrication to foundry partner TowerJazz in Migdal Haemek, Israel.

Established in 1993, TowerJazz is a worldwide supplier for foundry services of wafer manufacturing. They offer process technologies down to 0.13 microns. TowerJazz has achieved ISO14001:2004, SI ISO27001:2007, OHSAS18001:2007, ISO9001:2008 and TS1649:2009 certifications.

**CLASSIFICATION OF CHANGE:** Wafer Site

**REASON FOR CHANGE:** Additional Wafer Fabrication Capacity

**EXPECTED INFLUENCE ON PERFORMANCE/QUALITY/RELIABILITY:** There will be no effect on performance, quality or reliability.

**PRODUCT CATEGORY:** ICs

**PART NUMBERS AFFECTED:** Part list included on page 2 of this PCN

**VISHAY BRAND(s):** Vishay-Siliconix

**TIME SCHEDULE:** Shipment of products with wafers from Tower will begin May 2014

**SAMPLE AVAILABILITY:** Please contact your regional Vishay Sales office for sample availability.

**QUALIFICATION DATA:** Qualification Data is included with this PCN. Additional data available upon request.

**This PCN is for notification purposes only. Your response is not required. If you have any questions, please contact your local Vishay Sales Office.**

**ISSUED BY:** Karyn Rivera, Vishay Siliconix, IC Product Marketing. E-mail address: [karyn.rivera@vishay.com](mailto:karyn.rivera@vishay.com)

**For further information, please contact your regional Vishay office.**

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# Product Change Notification



Product Group: Vishay Siliconix/ March 7, 2014/PCN-SIL-0052014 Rev 0

CSIEC2DWF	DG211BDJ	DG271BDY	DG308BDY-T1	DG401BDY	DG406BDN-T1-E3
D469ADJ-ER	DG211BDJ-E3	DG271BDY-E3	DG308BDY-T1-E3	DG401BDY-E3	DG406BDW
DG200BDJ	DG211BDQ	DG271BDY-T1	DG309BDJ	DG401BDY-T1	DG406BDW-E3
DG200BDJ-E3	DG211BDQ-E3	DG271BDY-T1-E3	DG309BDJ-E3	DG401BDY-T1-E3	DG406BDW-T1-E3
DG200BDWF	DG211BDQ-T1	DG300BDJ	DG309BDQ	DG401DJ	DG406DJ
DG201BDJ	DG211BDQ-T1-E3	DG300BDJ-E3	DG309BDQ-E3	DG401DJ-E3	DG406DJ-E3
DG201BDJ-E3	DG211BDY	DG300BDWF	DG309BDQ-T1	DG401DY	DG406DN
DG201BDQ	DG211BDY-E3	DG301BDJ	DG309BDQ-T1-E3	DG401DY-E3	DG406DN-E3
DG201BDQ-E3	DG211BDY-T1	DG301BDJ-E3	DG309BDY	DG401DY-T1	DG406DN-T1
DG201BDQ-T1	DG211BDY-T1-E3	DG301BDWF	DG309BDY-E3	DG401DY-T1-E3	DG406DN-T1-E3
DG201BDQ-T1-E3	DG212BDDICE	DG302BDJ	DG309BDY-T1	DG403BDJ	DG406DW
DG201BDY	DG212BDJ	DG302BDJ-E3	DG309BDY-T1-E3	DG403BDJ-E3	DG406DW-E3
DG201BDY-E3	DG212BDJ-E3	DG303BDJ	DG309CJ	DG403BDWF	DG406DWF
DG201BDY-T1	DG212BDQ	DG303BDJ-E3	DG309CJ-E3	DG403BDY	DG406DW-T1
DG201BDY-T1-E3	DG212BDQ-E3	DG303BDWF	DG309DY	DG403BDY-E3	DG406DW-T1-E3
DG201BDY-T1-E3-S	DG212BDQ-T1	DG303BDY	DG309DY-E3	DG403BDY-T1	DG407BDJ
DG201BEY-E3	DG212BDQ-T1-E3	DG303BDY-E3	DG309DY-T1	DG403BDY-T1-E3	DG407BDJ-E3
DG201BEY-T1	DG212BDY	DG303BDY-T1	DG309DY-T1-E3	DG403DJ	DG407BDN
DG201BEY-T1-E3	DG212BDY-E3	DG303BDY-T1-E3	DG333ADJ	DG403DJ-E3	DG407BDN-E3
DG201HSDJ	DG212BDY-T1	DG304BDJ	DG333ADJ-E3	DG403DY	DG407BDN-T1
DG201HSDJ-E3	DG212BDY-T1-E3	DG304BDJ-E3	DG333ADQ-T1-E3	DG403DY-E3	DG407BDN-T1-E3
DG201HSDQ	DG213DJ	DG306BDJ	DG333ADW	DG403DY-T1	DG407BDW
DG201HSDQ-E3	DG213DJ-E3	DG306BDJ-E3	DG333ADW-E3	DG403DY-T1-E3	DG407BDW-E3
DG201HSDQ-T1	DG213DQ	DG307BDJ	DG333ADW-T1-E3	DG405BDJ	DG407BDW-T1-E3
DG201HSDQ-T1-E3	DG213DQ-E3	DG307BDJ-E3	DG333ALDJ	DG405BDJ-E3	DG407DJ
DG201HSDWF	DG213DQ-T1	DG308ACJ	DG333ALDJ-E3	DG405BDY	DG407DJ-E3
DG201HSDY	DG213DQ-T1-E3	DG308ACJ-4-E3	DG333ALDQ-T1-E3	DG405BDY-E3	DG407DN
DG201HSDY-E3	DG213DY	DG308ACJ-E3	DG333ALDW	DG405BDY-T1	DG407DN-E3
DG201HSDY-T1	DG213DY-E3	DG308ADY	DG333ALDW-E3	DG405BDY-T1-E3	DG407DN-T1
DG201HSDY-T1-E3	DG213DY-T1	DG308ADY-E3	DG333ALDW-T1-E3	DG405DJ	DG407DN-T1-E3
DG202BDJ	DG213DY-T1-E3	DG308ADY-T1	DG381BDJ	DG405DJ-E3	DG407DW
DG202BDJ-E3	DG221BDJ	DG308ADY-T1-E3	DG381BDJ-E3	DG405DY	DG407DW-E3
DG202BDQ	DG221BDJ-E3	DG308BDJ	DG384BDJ	DG405DY-E3	DG407DW-T1-E3
DG202BDQ-E3	DG221BDY	DG308BDJ-E3	DG384BDJ-E3	DG405DY-T1	DG408DJ
DG202BDQ-T1	DG221BDY-E3	DG308BDQ	DG387BDJ	DG405DY-T1-E3	DG408DJ-E3
DG202BDQ-T1-E3	DG221BDY-T1	DG308BDQ-E3	DG387BDJ-E3	DG406BDJ	DG408DQ
DG202BDY	DG221BDY-T1-E3	DG308BDQ-T1	DG390BDJ	DG406BDJ-E3	DG408DQ-E3
DG202BDY-E3	DG271BCJ	DG308BDQ-T1-E3	DG390BDJ-E3	DG406BDN	DG408DQ-T1
DG202BDY-T1	DG271BCJ-E3	DG308BDY	DG401BDJ	DG406BDN-E3	DG408DQ-T1-E3
DG202BDY-T1-E3	DG271BDWF	DG308BDY-E3	DG401BDJ-E3	DG406BDN-T1	DG408DWF

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Product Group: Vishay Siliconix/ March 7, 2014/PCN-SIL-0052014 Rev 0

DG408DY	DG412DY-T1-E3	DG418BDQ-T1-E3	DG441BDY-T1	DG445BDY-T1-E3	DG508BEJ-E3
DG408DY-E3	DG412HSDJ	DG418BDY	DG441BDY-T1-E3	DG445DJ	DG508BEN-T1-GE4
DG408DY-ER	DG412HSDJ-E3	DG418BDY-E3	DG441DJ	DG445DJ-E3	DG508BEQ-T1-E3
DG408DY-ER-E3	DG412HSDN-T1-E3	DG418BDY-T1	DG441DJ-E3	DG445DY	DG508BEY-T1-E3
DG408DY-T1	DG412HSDN-T1-E4	DG418BDY-T1-E3	DG441DY	DG445DY-E3	DG508DB
DG408DY-T1-E3	DG412HSDY	DG418DJ	DG441DY-E3	DG445DY-ER	DG509BEJ-E3
DG408DY-T1-E3-S	DG412HSDY-E3	DG418DJ-E3	DG441DY-T1	DG445DY-T1	DG509BEN-T1-GE4
DG409DJ	DG412HSDY-T1	DG418DY	DG441DY-T1-E3	DG445DY-T1-E3	DG509BEQ-T1-E3
DG409DJ-E3	DG412HSDY-T1-E3	DG418DY-E3	DG442BDJ	DG447DV-T1-E3	DG509BEY-T1-E3
DG409DQ	DG413ADICE	DG418DY-T1	DG442BDJ-E3	DG448DV-T1-E3	DG602DV
DG409DQ-T1	DG413DJ	DG418DY-T1-E3	DG442BDN-T1-E4	DG449DS-T1-E3	SDG201HS01
DG409DQ-T1-E3	DG413DJ-E3	DG419BDJ	DG442BDY	DG451EQ-T1-E3	SDG20221-T1
DG409DWF	DG413DQ-E3	DG419BDJ-E3	DG442BDY-E3	DG451EY-T1-E3	SDG27130
DG409DY	DG413DQ-T1-E3	DG419BDQ-T1-E3	DG442BDY-T1	DG452EQ-T1-E3	SDG27142
DG409DY-E3	DG413DY	DG419BDWF	DG442BDY-T1-E3	DG452EY-T1-E3	SDG27142-T1
DG409DY-T1	DG413DY-E3	DG419BDY	DG442DJ	DG453EQ-T1-E3	SDG27143
DG409DY-T1-E3	DG413DY-T1	DG419BDY-E3	DG442DJ-E3	DG453EY-T1-E3	SDG40358
DG411DJ	DG413DY-T1-E3	DG419BDY-T1	DG442DY	DG454EQ-T1-E3	SDG40359
DG411DJ-E3	DG413HSDJ	DG419BDY-T1-E3	DG442DY-E3	DG454EY-T1-E3	SDG40812
DG411DQ-E3	DG413HSDJ-E3	DG419DJ	DG442DY-T1	DG455EQ-T1-E3	SDG40813
DG411DQ-T1-E3	DG413HSDN-T1-E3	DG419DJ-E3	DG442DY-T1-E3	DG455EY-T1-E3	SDG40813-T1
DG411DWF	DG413HSDN-T1-E4	DG419DY	DG444BDJ	DG456EQ-T1-E3	SDG40912
DG411DY	DG413HSDY	DG419DY-E3	DG444BDJ-E3	DG456EY-T1-E3	SDG40913
DG411DY-E3	DG413HSDY-E3	DG419DY-T1	DG444BDN-T1-E4	DG458DJ	SDG40913-T1
DG411DY-T1	DG413HSDY-T1	DG419DY-T1-E3	DG444BDY	DG458DJ-E3	SDG41107
DG411DY-T1-E3	DG413HSDY-T1-E3	DG428DJ	DG444BDY-E3	DG459DJ	SDG41120
DG411HSDJ	DG417BDJ	DG428DJ-E3	DG444BDY-T1	DG459DJ-E3	SDG41122
DG411HSDJ-E3	DG417BDJ-E3	DG428DN	DG444BDY-T1-E3	DG467DV-T1-E3	SDG41202
DG411HSDN-T1-E3	DG417BDQ-T1-E3	DG428DN-E3	DG444DJ	DG468DV-T1-E3	SDG41701
DG411HSDN-T1-E4	DG417BDY	DG429DJ	DG444DJ-E3	DG469DWF	SDG41901
DG411HSDY	DG417BDY-E3	DG429DJ-E3	DG444DY	DG469EQ-T1-E3	SDG41905
DG411HSDY-E3	DG417BDY-T1	DG429DN	DG444DY-E3	DG469EY-T1-E3	SDG44109
DG411HSDY-T1	DG417BDY-T1-E3	DG429DN-E3	DG444DY-T1	DG470EQ-T1-E3	SDG44203
DG411HSDY-T1-E3	DG417DJ	DG429DW	DG444DY-T1-E3	DG470EY-T1-E3	SDG44408
DG412DJ	DG417DJ-E3	DG429DW-E3	DG445ADICE	DG506BDWF	SDG44408-T1
DG412DJ-E3	DG417DY	DG441ADICE	DG445BDJ	DG506BEN-T1-GE3	SDG44501-E3
DG412DQ-E3	DG417DY-E3	DG441BDJ	DG445BDJ-E3	DG506BEQ-T1-GE3	SDG44501-E3.01
DG412DQ-T1-E3	DG417DY-T1	DG441BDJ-E3	DG445BDN-T1-E4	DG506BEW-T1-GE3	SDG44502-E3
DG412DY	DG417DY-T1-E3	DG441BDN-T1-E4	DG445BDY	DG507BEN-T1-GE3	SDG44502-E3.01
DG412DY-E3	DG418BDJ	DG441BDY	DG445BDY-E3	DG507BEQ-T1-GE3	
DG412DY-T1	DG418BDJ-E3	DG441BDY-E3	DG445BDY-T1	DG507BEW-T1-GE3	

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# Product Change Notification



Product Group: Vishay Siliconix/ March 7, 2014/PCN-SIL-0052014 Rev 0

## Reliability Test Results

Table 1

STRESS EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1360106	Product Preconditioning	0	RELI-0008 24hrs bake @ 125°C, 85°C/85%RH + 3 cycles Reflow @ 260 per JEDEC J-STD-020C	3	300	0	X	ET	NA
	HTOL	1	OP LIFE (150C)	168	82	0	X	ET	NA
		2	OP LIFE (150C)	500	82	0	X	ET	NA
		3	OP LIFE (150C) Ta= 150C, V+/V-= +/-15.0V Bias	1000	82	0	X	ET	NA
	TEMP CYCLE	1	T/C @	250	82	0	X	ET	NA
		2	T/C @	500	82	0	X	ET	NA
		3	T/C @ -65C to +150C air to air	1000	82	0	X	ET	NA
	HAST	1	HAST	0	82	0	X	ET	NA
		2	HAST 130 deg C, 85% RH w/ V+/V-= +/-15.0V Bias	100	82	0	X	ET	NA
	PRESSURE POT	1	PPOT +121°C, 15 PSIG	96	82	0	X	ET	NA
	BOND INT	0	BOND INT	0	40	0	X	VM	
		1	BOND INT	250	40	0	X	VM	
		2	BOND INT	500	40	0	X	VM	
	DIE SHEAR	0	DIE SHEAR	0	10	0	X	VM	

PART NUMBER: DG408DY SOIC16  
 GEOMETRY: CSIC-C  
 DATE CODE:ED22K265/ WFR# 12 / QUAL LOT#1  
 PURPOSE: REF.1910-3447

EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1340378	C-SAM	1	C-SAM	0	5	0	X	VM	
	DPA	1	DIE CROSS SEC	0	5	0	X	VM	
	PASSIVATION	1	P. INTEGRITY	0	50	0	X	VM	

PART NUMBER: DG408DY  
 GEOMETRY: CSIC-C  
 DATE CODE:  
 PURPOSE: QUAL

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**FAB DATA:**

SIMS 0 SGS In-House Method-RSTS-EESVHC-007 (see Appendix 1)  
 Test Report SGS No. CC/2014/10086  
 Test Report SGS No. CE/2014/11214B

VT Stability 0 CV measurement 5 sites with stress (see Appendix 2)  
 of (22.5[v],45[v]) in acc mode

**Table 2**

STRESS EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1360107	Product Preconditioning	0	RELI-0008 24hrs bake @ 125°C, 85°C/85%RH + 3 cycles Reflow @ 260 per JEDEC J-STD-020C	3	300	0	X	ET	NA
	HTOL	1	OP LIFE (150C)	168	82	0	X	ET	NA
		2	OP LIFE (150C)	500	82	0	X	ET	NA
		3	OP LIFE (150C) Ta= 150C, V+/V-= +/-15.0V Bias	1000	82	0	X	ET	NA
	TEMP CYCLE	1	T/C ©	250	82	0	X	ET	NA
		2	T/C ©	500	82	0	X	ET	NA
		3	T/C © -65C to +150C air to air	1000	82	0	X	ET	NA
	HAST	1	HAST	0	82	0	X	ET	NA
		2	HAST 130 deg C, 85% RH w/ V+/V-= +/-15.0V Bias	100	82	0	X	ET	NA
	PRESSURE POT	1	PPOT +121°C, 15 PSIG	96	82	0	X	ET	NA

PART NUMBER: DG408DY SOIC16  
 GEOMETRY: CSIC-C  
 DATE CODE:ED28K197 / WFR# 17 / QUAL LOT#2  
 PURPOSE: REF.1910-3447

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# Product Change Notification



Product Group: Vishay Siliconix/ March 7, 2014/PCN-SIL-0052014 Rev 0

Table 3

STRESS EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1360108	Product Preconditioning	0	RELI-0008 24hrs bake @ 125°C, 85°C/85%RH + 3 cycles Reflow @ 260 per JEDEC J-STD-020C	3	300	0	X	ET	NA
	HTOL	1	OP LIFE (150C)	168	82	0	X	ET	NA
		2	OP LIFE (150C)	500	82	0	X	ET	NA
		3	OP LIFE (150C) Ta= 150C, V+/V-= +/-15.0V Bias	1000	82	0	X	ET	NA
	TEMP CYCLE	1	T/C ©	250	82	0	X	ET	NA
		2	T/C ©	500	82	0	X	ET	NA
		3	T/C © -65C to +150C air to air	1000	82	0	X	ET	NA
	HAST	1	HAST	0	82	0	X	ET	NA
		2	HAST 130 deg C, 85% RH w/ V+/V-= +/-15.0V Bias	100	82	0	X	ET	NA
	PRESSURE POT	1	PPOT +121°C, 15 PSIG	96	82	0	X	ET	NA

PART NUMBER: DG408DY SOIC16  
 GEOMETRY: CSIC-C  
 DATE CODE:ED28K198 / WFR# 1 / QUAL LOT#3  
 PURPOSE: REF.1910-3447

EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1340406	ESD - H B	0	ESD' - H B MO	0	15	0	X	ET	
		1	ESD' - H B MO	500	3	0	X	ET	
		2	ESD' - H B MO	1000	3	0	X	ET	
		3	ESD' - H B MO	1500	3	1	X	ET	FI
		4	ESD' - H B MO	2000	3	2	X	ET	FI
		5	ESD' - H B MO	2500	3	2	X	ET	FI

PART NUMBER: DG408DY  
 GEOMETRY: CSIC-C  
 DATE CODE:  
 PURPOSE: QUAL

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# Product Change Notification



Product Group: Vishay Siliconix/ March 7, 2014/PCN-SIL-0052014 Rev 0

## Validation Lot Results

Table 4

STRESS EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1360132	Reflow	0	REFLOW @250C, 3CYC	3	1000	0	X	ET	NA
			REFLOW @250C, 3CYC	3	4000	0	X	ET	NA
	TEMP CYCLE	1	T/C ©	100	1000	0	X	ET	NA
			-65C to +150C air to air	100	4000	0	X	ET	NA
		2	T/C ©	250	1000	0	X	ET	NA
			-65C to +150C air to air	250	4000	0	X	ET	NA

PART NUMBER: DG408DY SOIC16  
 GEOMETRY: CSIC-C  
 DATE CODE / LOT# : ED22K265 / WFR#13 & 15  
 PURPOSE: 1910-3447 / LOT1

Table 5

STRESS EVAL *****	STRESS *****	STEP *****	TEST CONDITION *****	HR-CYC *****	S S *****	FAIL *****	DONE *****	TEST TYPE *****	FAIL CODE *****
1360133	Reflow	0	REFLOW @250C, 3CYC	3	1000	0	X	ET	NA
			REFLOW @250C, 3CYC	3	4000	0	X	ET	NA
	TEMP CYCLE	1	T/C ©	100	1000	0	X	ET	NA
			-65C to +150C air to air	100	4000	0	X	ET	NA
		2	T/C ©	250	1000	0	X	ET	NA
			-65C to +150C air to air	250	4000	0	X	ET	NA

PART NUMBER: DG408DY SOIC16  
 GEOMETRY: CSIC-C  
 DATE CODE / LOT# : ED28K197/ WFR#5 & 10  
 PURPOSE: 1910-3447 / LOT2

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Table 6

STRESS EVAL	STRESS	STEP	TEST CONDITION	HR-CYC	S	S	FAIL	DONE	TEST TYPE	FAIL CODE
*****	*****	****	*****	*****	****	****	****	****	****	****
1360134	Reflow	0	REFLOW @250C, 3CYC	3	1000	0	X	ET	NA	
			REFLOW @250C, 3CYC	3	4000	0	X	ET	NA	
	TEMP CYCLE	1	T/C @	100	1000	0	X	ET	NA	
			-65C to +150C air to air	100	4000	0	X	ET	NA	
		2	T/C @	250	1000	0	X	ET	NA	
			-65C to +150C air to air	250	4000	0	X	ET	NA	

PART NUMBER: DG408DY SOIC16  
 GEOMETRY: CSIC-C  
 DATE CODE / LOT# : ED28K198 / WFR#3 & 4  
 PURPOSE: 1910-3447 / LOT3

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