

Product / Process Change Notification



N° 2018-052-A

Dear Customer,

Please find attached our INFINEON Technologies PCN:

Change of wafer production from Infineon Technologies Americas Corp., Temecula CA., USA to Silicon Foundry Vanguard International Semiconductor Corporation, Taiwan for HVIC Gen 1 and Gen 2 wafers

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **2 April 2021**.
- Infineon aligns with the widely-recognized JEDEC STANDARD “**JESD46**“, which stipulates: **“Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.”**

Your prompt reply will help Infineon Technologies to assure a smooth and well executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.

Infineon Technologies AG
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Chairman of the Supervisory Board: Dr. Wolfgang Eder
Management Board: Dr. Reinhard Ploss (CEO), Dr. Helmut Gassel, Jochen Hanebeck, Dr. Sven Schneider
Registered Office: Neubiberg
Commercial Register: München HRB 126492

Product / Process Change Notification



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► **Products affected:** Please refer to attached affected product list: 1_cip18052_a

► **Detailed Change Information:**

Subject: Change of wafer production from Infineon Technologies Americas Corp., Temecula CA., USA to Silicon Foundry Vanguard International Semiconductor Corporation, Taiwan and wafer sort to ETREND Hightech Corp., Taiwan for HVIC Gen 1 and Gen 2 wafers

Reason: The wafer production of the affected products will be transferred to Silicon Foundry Vanguard International Semiconductor Corporation, Taiwan, according to the global Infineon production strategy.

Description:	<u>Old</u>	<u>New</u>
	<ul style="list-style-type: none">• Wafer fab: Infineon Technologies Americas Corp., Temecula CA., USA	<ul style="list-style-type: none">• Wafer fab: Silicon Foundry Vanguard International Semiconductor Corporation, Taiwan, 8" wafer
	<ul style="list-style-type: none">• Wafer sort: Infineon Technologies Americas Corp., Temecula CA., USA	<ul style="list-style-type: none">• Wafer sort: ETREND Hightech Corp., Taiwan

► **Product Identification:** Ensured by internal traceability in manufacturing execution systems

► **Impact of Change:** Based on the qualification performed, Infineon does not expect any negative impact on quality, function and reliability.

► **Attachments:**
Affected product list: 1_cip18052_a
Qualification report: 2_cip18052_a

Product / Process Change Notification



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► Time Schedule:

- | | |
|-------------------------------|--|
| ■ Final qualification report: | Available |
| ■ First samples available: | Selected PCN samples are already available. Availability of all PCN samples scheduled for mid to end of March 2021 (based on customer requests and quantities) |
| ■ Intended start of delivery: | Start of delivery of changed products beginning from June 2021 or earlier on customer request. Further delivery of unchanged products is possible until stock will be depleted |

If you have any questions, please do not hesitate to contact your local Sales office.

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Sales name	SP number	OPN	Internet Package
98-0020TYPBF	SP001537984	98-0020TYPBF	PLCC44
98-0163PBF	SP001546992	98-0163PBF	PLCC44
98-0164PBF	SP001535174	98-0164PBF	PLCC44
98-0169PBF	SP001539022	98-0169PBF	PLCC44
98-0175PBF	SP001533222	98-0175PBF	PLCC44
98-0237PBF	SP001543506	98-0237PBF	SOIC 8N
98-0246PBF	SP001535164	98-0246PBF	MQFP-64L
98-0285PBF	SP001547650	98-0285PBF	SOIC 8N
98-0286PBF	SP001538360	98-0286PBF	PLCC44
98-0372PBF	SP001544150	98-0372PBF	SOIC 14N
98-0476PBF	SP001546956	98-0476PBF	SOIC 8N
98-0505PBF	SP001536598	98-0505PBF	SOIC 8N
98-0506PBF	SP001538900	98-0506PBF	SOIC 8N
98-1064PBF	SP001546948	98-1064PBF	SOIC 16W
98-5226PBF	SP001543620	98-5226PBF	SOIC 28W
IR2010PBF	SP001544348	IR2010PBF	PDIP14
IR2010SPBF	SP001535262	IR2010SPBF	SOIC 16W
IR2010STRPBF	SP001539676	IR2010STRPBF	SOIC 16W
IR2011PBF	SP001536694	IR2011PBF	PDIP8
IR2011SPBF	SP001539074	IR2011SPBF	SOIC 8N
IR2011STRPBF	SP001538080	IR2011STRPBF	SOIC 8N
IR2101PBF	SP001533182	IR2101PBF	PDIP8
IR2101SPBF	SP001547192	IR2101SPBF	SOIC 8N
IR2101STRPBF	SP001547610	IR2101STRPBF	SOIC 8N
IR2102PBF	SP001536828	IR2102PBF	PDIP8
IR2102SPBF	SP001543900	IR2102SPBF	SOIC 8N
IR2102STRPBF	SP001539206	IR2102STRPBF	SOIC 8N
IR2103PBF	SP001547202	IR2103PBF	PDIP8
IR2103STRPBF	SP001543892	IR2103STRPBF	SOIC 8N
IR2104PBF	SP001544338	IR2104PBF	PDIP8
IR2104SPBF	SP001535392	IR2104SPBF	SOIC 8N
IR2104STRPBF	SP001539188	IR2104STRPBF	SOIC 8N
IR21064STRPBF	SP001536818	IR21064STRPBF	SOIC 14N
IR2106PBF	SP001539196	IR2106PBF	PDIP8
IR2106SPBF	SP001547184	IR2106SPBF	SOIC 8N
IR2106STRPBF	SP001538070	IR2106STRPBF	SOIC 8N
IR21084PBF	SP001539996	IR21084PBF	PDIP14
IR21084STRPBF	SP001539660	IR21084STRPBF	SOIC 14N
IR2108PBF	SP001533172	IR2108PBF	PDIP8
IR2108SPBF	SP001533162	IR2108SPBF	SOIC 8N
IR2108STRPBF	SP001547602	IR2108STRPBF	SOIC 8N
IR21091STRPBF	SP001544330	IR21091STRPBF	SOIC 8N
IR21094PBF	SP001535372	IR21094PBF	PDIP14
IR21094SPBF	SP001536798	IR21094SPBF	SOIC 14N
IR21094STRPBF	SP001539652	IR21094STRPBF	SOIC 14N
IR2109PBF	SP001544584	IR2109PBF	PDIP8
IR2109SPBF	SP001538274	IR2109SPBF	SOIC 8N
IR2109STRPBF	SP001547168	IR2109STRPBF	SOIC 8N
IR2110PBF	SP001536788	IR2110PBF	PDIP14

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Sales name	SP number	OPN	Internet Package
IR2110SPBF	SP001547594	IR2110SPBF	SOIC 16W
IR2110STRPBF	SP001539178	IR2110STRPBF	SOIC 16W
IR2111PBF	SP001533152	IR2111PBF	PDIP8
IR2111SPBF	SP001535352	IR2111SPBF	SOIC 8N
IR2111STRPBF	SP001536780	IR2111STRPBF	SOIC 8N
IR2112PBF	SP001539968	IR2112PBF	PDIP14
IR2112SPBF	SP001544574	IR2112SPBF	SOIC 16W
IR2112STRPBF	SP001547586	IR2112STRPBF	SOIC 16W
IR2113PBF	SP001539158	IR2113PBF	PDIP14
IR2113SPBF	SP001538040	IR2113SPBF	SOIC 16W
IR2113STRPBF	SP001543856	IR2113STRPBF	SOIC 16W
IR2114SSPBF	SP001539894	IR2114SSPBF	SSOP24
IR2114SSTRPBF	SP001543864	IR2114SSTRPBF	SSOP24
IR2117PBF	SP001539138	IR2117PBF	PDIP8
IR2117SPBF	SP001547404	IR2117SPBF	SOIC 8N
IR2117STRPBF	SP001538020	IR2117STRPBF	SOIC 8N
IR2118PBF	SP001533142	IR2118PBF	PDIP8
IR2118SPBF	SP001535342	IR2118SPBF	SOIC 8N
IR2118STRPBF	SP001547578	IR2118STRPBF	SOIC 8N
IR2121PBF	SP001544564	IR2121PBF	PDIP8
IR2125PBF	SP001539118	IR2125PBF	PDIP8
IR2125SPBF	SP001544556	IR2125SPBF	SOIC 16W
IR2125STRPBF	SP001543836	IR2125STRPBF	SOIC 16W
IR21271PBF	SP001539858	IR21271PBF	PDIP8
IR21271SPBF	SP001539868	IR21271SPBF	SOIC 8N
IR21271STRPBF	SP001536750	IR21271STRPBF	SOIC 8N
IR2127PBF	SP001536770	IR2127PBF	PDIP8
IR2127SPBF	SP001547570	IR2127SPBF	SOIC 8N
IR2127STRPBF	SP001547386	IR2127STRPBF	SOIC 8N
IR2128PBF	SP001539948	IR2128PBF	PDIP8
IR2128SPBF	SP001539886	IR2128SPBF	SOIC 8N
IR2128STRPBF	SP001533112	IR2128STRPBF	SOIC 8N
IR2130JPBF	SP001533122	IR2130JPBF	PLCC44
IR2130JTRPBF	SP001533252	IR2130JTRPBF	PLCC44
IR2130PBF	SP001547666	IR2130PBF	PDIP28
IR2130SPBF	SP001544524	IR2130SPBF	SOIC 28W
IR2130STRPBF	SP001533366	IR2130STRPBF	SOIC 28W
IR2131JTRPBF	SP001535332	IR2131JTRPBF	PLCC44
IR2131SPBF	SP001547360	IR2131SPBF	SOIC 28W
IR2131STRPBF	SP001544486	IR2131STRPBF	SOIC 28W
IR2132JPBF	SP001539940	IR2132JPBF	PLCC44
IR2132JTRPBF	SP001538240	IR2132JTRPBF	PLCC44
IR2132PBF	SP001538500	IR2132PBF	PDIP28
IR2132SPBF	SP001544532	IR2132SPBF	SOIC 28W
IR2132STRPBF	SP001538480	IR2132STRPBF	SOIC 28W
IR2133JPBF	SP001539776	IR2133JPBF	PLCC44
IR2133JTRPBF	SP001547776	IR2133JTRPBF	PLCC44
IR2133PBF	SP001538230	IR2133PBF	PDIP28
IR2133SPBF	SP001533320	IR2133SPBF	SOIC 28W

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Sales name	SP number	OPN	Internet Package
IR2133STRPBF	SP001536704	IR2133STRPBF	SOIC 28W
IR2135JPBF	SP001538470	IR2135JPBF	PLCC44
IR2135JTRPBF	SP001544516	IR2135JTRPBF	PLCC44
IR2135STRPBF	SP001538520	IR2135STRPBF	SOIC 28W
IR21363JPBF	SP001540156	IR21363JPBF	PLCC44
IR21363JTRPBF	SP001535292	IR21363JTRPBF	PLCC44
IR21363STRPBF	SP001536838	IR21363STRPBF	SOIC 28W
IR21364STRPBF	SP001539912	IR21364STRPBF	SOIC 28W
IR2136JTRPBF	SP001535412	IR2136JTRPBF	PLCC44
IR2136PBF	SP001544476	IR2136PBF	PDIP28
IR2136SPBF	SP001539794	IR2136SPBF	SOIC 28W
IR2136STRPBF	SP001539090	IR2136STRPBF	SOIC 28W
IR21531DPBF	SP001539848	IR21531DPBF	PDIP8
IR21531PBF	SP001544046	IR21531PBF	PDIP8
IR21531SPBF	SP001539922	IR21531SPBF	SOIC 8N
IR21531STRPBF	SP001539932	IR21531STRPBF	SOIC 8N
IR2153DPBF	SP001538010	IR2153DPBF	PDIP8
IR2153PBF	SP001539812	IR2153PBF	PDIP8
IR2153SPBF	SP001535542	IR2153SPBF	SOIC 8N
IR2153STRPBF	SP001540164	IR2153STRPBF	SOIC 8N
IR2175SPBF	SP001533300	IR2175SPBF	SOIC 8N
IR2175STRPBF	SP001533330	IR2175STRPBF	SOIC 8N
IR21814SPBF	SP001536712	IR21814SPBF	SOIC 14N
IR21814STRPBF	SP001533310	IR21814STRPBF	SOIC 14N
IR2181PBF	SP001547784	IR2181PBF	PDIP8
IR2181SPBF	SP001537992	IR2181SPBF	SOIC 8N
IR2181STRPBF	SP001535282	IR2181STRPBF	SOIC 8N
IR21834PBF	SP001535302	IR21834PBF	PDIP14
IR21834SPBF	SP001547768	IR21834SPBF	SOIC 14N
IR21834STRPBF	SP001544594	IR21834STRPBF	SOIC 14N
IR2183PBF	SP001536970	IR2183PBF	PDIP8
IR2183SPBF	SP001538462	IR2183SPBF	SOIC 8N
IR2183STRPBF	SP001538442	IR2183STRPBF	SOIC 8N
IR21844PBF	SP001533280	IR21844PBF	PDIP14
IR21844SPBF	SP001536960	IR21844SPBF	SOIC 14N
IR21844STRPBF	SP001539326	IR21844STRPBF	SOIC 14N
IR2184PBF	SP001547758	IR2184PBF	PDIP8
IR2184SPBF	SP001544038	IR2184SPBF	SOIC 8N
IR2184STRPBF	SP001540146	IR2184STRPBF	SOIC 8N
IR2213PBF	SP001536950	IR2213PBF	PDIP14
IR2213SPBF	SP001547314	IR2213SPBF	SOIC 16W
IR2213STRPBF	SP001539316	IR2213STRPBF	SOIC 16W
IR2214SSPBF	SP001544030	IR2214SSPBF	SSOP24
IR2214SSTRPBF	SP001538202	IR2214SSTRPBF	SSOP24
IR2233JPBF	SP001539516	IR2233JPBF	PLCC44
IR2233JTRPBF	SP001538212	IR2233JTRPBF	PLCC44
IR2233PBF	SP001540034	IR2233PBF	PDIP28
IR2233SPBF	SP001535524	IR2233SPBF	SOIC 28W
IR2233STRPBF	SP001535534	IR2233STRPBF	SOIC 28W

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Sales name	SP number	OPN	Internet Package
IR2235JPBF	SP001540128	IR2235JPBF	PLCC44
IR2235JTRPBF	SP001535514	IR2235JTRPBF	PLCC44
IR2235STRPBF	SP001539506	IR2235STRPBF	SOIC 28W
IR2238QPBF	SP001544022	IR2238QPBF	MQFP-64L
IR2301PBF	SP001547732	IR2301PBF	PDIP8
IR2301SPBF	SP001544700	IR2301SPBF	SOIC 8N
IR2301STRPBF	SP001533270	IR2301STRPBF	SOIC 8N
IR2302PBF	SP001538540	IR2302PBF	PDIP8
IR2302SPBF	SP001539634	IR2302SPBF	SOIC 8N
IR2302STRPBF	SP001536940	IR2302STRPBF	SOIC 8N
IR2304PBF	SP001540118	IR2304PBF	PDIP8
IR2304SPBF	SP001538414	IR2304SPBF	SOIC 8N
IR2304STRPBF	SP001540082	IR2304STRPBF	SOIC 8N
IR2308PBF	SP001536930	IR2308PBF	PDIP8
IR2308SPBF	SP001544014	IR2308SPBF	SOIC 8N
IR2308STRPBF	SP001540108	IR2308STRPBF	SOIC 8N
IR25600SPBF	SP001539496	IR25600SPBF	SOIC 8N
IR25600STRPBF	SP001540100	IR25600STRPBF	SOIC 8N
IR25601STRPBF	SP001544692	IR25601STRPBF	SOIC 8N
IR25602STRPBF	SP001544202	IR25602STRPBF	SOIC 8N
IR25603PBF	SP001538192	IR25603PBF	PDIP8
IR25603STRPBF	SP001548278	IR25603STRPBF	SOIC 8N
IR25604STRPBF	SP001536910	IR25604STRPBF	SOIC 8N
IR25606STRPBF	SP001538664	IR25606STRPBF	SOIC 8N
IR25607SPBF	SP001539758	IR25607SPBF	SOIC 16W
IR25607STRPBF	SP001547298	IR25607STRPBF	SOIC 16W
IR4426PBF	SP001536900	IR4426PBF	PDIP8
IR4426SPBF	SP001547422	IR4426SPBF	SOIC 8N
IR4426STRPBF	SP001540232	IR4426STRPBF	SOIC 8N
IR4427PBF	SP001538614	IR4427PBF	PDIP8
IR4427SPBF	SP001538644	IR4427SPBF	SOIC 8N
IR4427STRPBF	SP001540064	IR4427STRPBF	SOIC 8N
98-0313PBF	SP001562900	98-0313PBF	SOIC 16W
IR2085STRPBF	SP001561320	IR2085STRPBF	SOIC 8N
IR2156STRPBF	SP001576046	IR2156STRPBF	SOIC 14N
IR2166PBF	SP001574572	IR2166PBF	PDIP16
IR2166STRPBF	SP001561312	IR2166STRPBF	SOIC 16W
IR2520DPBF	SP001550858	IR2520DPBF	PDIP8
IR2520DSTRPBF	SP001574544	IR2520DSTRPBF	SOIC 8N

Gen1 & 2 HVJI Gate Driver Qualification Report



Final Qualification Report for PCN 2018-052-A, 2021-02-19

Background: Transfer of Gen1&2 HVJI wafer fabrication from TEM to VIS

Objective: pass industrial level reliability

Affected package/ product: See product list tab

Reason for choosing following test vehicle: Test vehicles chosen based on voltage level and chip to package interaction

Q-Results Summary: Gen1&2 HVJI GD fabricated in VIS, assembled in Hana, Carsem, ASEM and JCET in SOIC8N, 14N, 16N, 16W, 28W, PDIP8, 14, 16, 28, PLCC44, SSOP24, MQFP-64L packages
 Assessment of Q-Results: Pass

				Gen 2, 200V family			Gen 2, 600V family				Gen 2, 1200V family				Gen 1, 600V				
Reference Products				IR2010STRPBF	IR2010STRPBF	IR2010STRPBF	IR2183STRPBF	IR2136STRPBF	IR2520DSTRPBF	98-0313PBF	IR2214SSTRPBF	98-0246PBF	IR2233JTRPBF	IR2233STRPBF	IR2233PBF	IR2132STRPBF	IR21271STRPBF	IR2113STRPBF	IR2113PBF
Test description	Abbr.	Condition	Readout	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3	Package	Lot 1	Lot 2	Lot 3	Package	Package	Lot 1	Lot 2	Lot 3	Package
			package	SOIC 16W			SOIC 8N	SOIC 28W	SOIC 8N	SOIC 16N	SSOP24	MQFP-64L	PLCC44	SOIC 28W	PDIP28	SOIC 28W	SOIC 8N	SOIC 16W	PDIP 14
			MSL Level	MSL 3			MSL 2	MSL 3	MSL 2	MSL 3	MSL 3	MSL 3	MSL 3	MSL 3	NA	MSL 3	MSL 2	MSL 3	NA
Temperature Cycling JESD22 A104	TC*	Ta = -55 °C to +150 °C (1000 cyc) or Ta = -65 °C to +150 °C (500 cyc)	0 cyc precon 500 cyc 1000 cyc	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77
Unbiased Temperature/Humidity JESD22 A118	uHAST*	Ta = 130°C RH = 85%	0 h precon 96 h	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77
High Humidity High Temp. Reverse Bias JESD22 A101	THB	Ta = 85°C RH = 85% 100% Vmax (VCC & VBS) & Vs=0V	0 h precon 168 h 500 h 1000 h	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77	0/77 0/77 0/77 0/77 0/77
High Temperature Storage Life JESD22 A108	HTSL	Ta = 150°C	0 h 500 h 1000 h	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45	0/45 0/45 0/45
HTOL High Temperature Operating Life JESD22-A108	HTOL	Tj Max	0 h 168 h 500 h	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	NA	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	NA	NA	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77	0/77 0/77 0/77
ESD Characterization JESD22 A114 F	ESD	Classification level	HBM	1B	NA	NA	1C	1C	1B	NA	1C	1C	2	NA	NA	1C	2	1C	NA
ESD Characterization JESD22-C101F	ESD	Classification level	CDM	C3	NA	NA	C3	C3	C3	NA	C3	C3	C3	NA	NA	C2B	C3	C3	NA

* PC is done only for SMD Packages before uHAST, TC, IOL, HTGS, HTRB and H3TRB stress tests

List of Qualified Products

Product name	Base Part	Tech Node	Package Name	Assymlby Site
IR2101PBF	IR2101PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2101SPBF	IR2101SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2101STRPBF	IR2101SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2102PBF	IR2102PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2102SPBF	IR2102SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2102STRPBF	IR2102SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2103PBF	IR2103PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2103STRPBF	IR2103SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2104PBF	IR2104PBF	HVIC-G1-0600	PDIP8	Hana, JCET
98-0505PBF	IR2104SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2104SPBF	IR2104SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2104STRPBF	IR2104SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2110PBF	IR2110PBF	HVIC-G1-0600	PDIP14	Hana, JCET
IR2110SPBF	IR2110SPBF	HVIC-G1-0600	SOIC 16W	Hana, Carsem-M
IR2110STRPBF	IR2110SPBF	HVIC-G1-0600	SOIC 16W	Hana, Carsem-M
IR2111PBF	IR2111PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2111SPBF	IR2111SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2111STRPBF	IR2111SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2112PBF	IR2112PBF	HVIC-G1-0600	PDIP14	Hana, JCET
IR2112SPBF	IR2112SPBF	HVIC-G1-0600	SOIC 16W	Hana, Carsem-M
IR2112STRPBF	IR2112SPBF	HVIC-G1-0600	SOIC 16W	Hana, Carsem-M
IR2113PBF	IR2113PBF	HVIC-G1-0600	PDIP14	Hana, JCET
IR2113SPBF	IR2113SPBF	HVIC-G1-0600	SOIC 16W	Hana, Carsem-M
IR2113STRPBF	IR2113SPBF	HVIC-G1-0600	SOIC 16W	Hana, Carsem-M
IR2117PBF	IR2117PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2117SPBF	IR2117SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2117STRPBF	IR2117SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2118PBF	IR2118PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2118SPBF	IR2118SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2118STRPBF	IR2118SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2121PBF	IR2121PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2125PBF	IR2125PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2125SPBF	IR2125SPBF	HVIC-G1-0600	SOIC 16W	Carsem-M
IR2125STRPBF	IR2125SPBF	HVIC-G1-0600	SOIC 16W	Carsem-M
IR21271PBF	IR21271PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR21271SPBF	IR21271SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR21271STRPBF	IR21271SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2127PBF	IR2127PBF	HVIC-G1-0600	PDIP8	Hana, JCET
98-0237PBF	IR2127SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2127SPBF	IR2127SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2127STRPBF	IR2127SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2128PBF	IR2128PBF	HVIC-G1-0600	PDIP8	Hana, JCET
IR2128SPBF	IR2128SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR2128STRPBF	IR2128SPBF	HVIC-G1-0600	SOIC 8N	Hana

98-0020TYPBF	IR2130JPBF	HVIC-G1-0600	PLCC44	ASE-M
98-0163PBF	IR2130JPBF	HVIC-G1-0600	PLCC44	ASE-M
IR2130JPBF	IR2130JPBF	HVIC-G1-0600	PLCC44	ASE-M
IR2130JTRPBF	IR2130JPBF	HVIC-G1-0600	PLCC44	ASE-M
IR2130PBF	IR2130PBF	HVIC-G1-0600	PDIP28	Hana
IR2130SPBF	IR2130SPBF	HVIC-G1-0600	SOIC 28W	Carsem-M
IR2130STRPBF	IR2130SPBF	HVIC-G1-0600	SOIC 28W	Carsem-M
IR2131JTRPBF	IR2131JPBF	HVIC-G1-0600	PLCC44	ASE-M
IR2131SPBF	IR2131SPBF	HVIC-G1-0600	SOIC 28W	Carsem-M
IR2131STRPBF	IR2131SPBF	HVIC-G1-0600	SOIC 28W	Carsem-M
IR2132JPBF	IR2132JPBF	HVIC-G1-0600	PLCC44	ASE-M
IR2132JTRPBF	IR2132JPBF	HVIC-G1-0600	PLCC44	ASE-M
IR2132PBF	IR2132PBF	HVIC-G1-0600	PDIP28	Hana
IR2132SPBF	IR2132SPBF	HVIC-G1-0600	SOIC 28W	Carsem-M
IR2132STRPBF	IR2132SPBF	HVIC-G1-0600	SOIC 28W	Carsem-M
IR25602STRPBF	IR25602SPBF	HVIC-G1-0600	SOIC 8N	Hana
IR25607SPBF	IR25607SPBF	HVIC-G1-0600	SOIC 16W	Carsem-M
IR25607STRPBF	IR25607SPBF	HVIC-G1-0600	SOIC 16W	Carsem-M
IR2010PBF	IR2010PBF	HVIC-G2-0200	PDIP14	Hana, JCET
98-1064PBF	IR2010SPBF	HVIC-G2-0200	SOIC 16W	Hana, Carsem-M
IR2010SPBF	IR2010SPBF	HVIC-G2-0200	SOIC 16W	Hana, Carsem-M
IR2010STRPBF	IR2010SPBF	HVIC-G2-0200	SOIC 16W	Hana, Carsem-M
IR2011PBF	IR2011PBF	HVIC-G2-0200	PDIP8	Hana, JCET
IR2011SPBF	IR2011SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR2011STRPBF	IR2011SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR2085STRPBF	IR2085SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR25600SPBF	IR25600SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR25600STRPBF	IR25600SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR4426PBF	IR4426PBF	HVIC-G2-0200	PDIP8	Hana, JCET
IR4426SPBF	IR4426SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR4426STRPBF	IR4426SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR4427PBF	IR4427PBF	HVIC-G2-0200	PDIP8	Hana, JCET
IR4427SPBF	IR4427SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR4427STRPBF	IR4427SPBF	HVIC-G2-0200	SOIC 8N	Hana
IR21064STRPBF	IR21064SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2106PBF	IR2106PBF	HVIC-G2-0600	PDIP8	Hana, JCET
98-0285PBF	IR2106SPBF	HVIC-G2-0600	SOIC 8N	Hana
98-0476PBF	IR2106SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2106SPBF	IR2106SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2106STRPBF	IR2106SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21084PBF	IR21084PBF	HVIC-G2-0600	PDIP14	Hana, JCET
IR21084STRPBF	IR21084SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2108PBF	IR2108PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2108SPBF	IR2108SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2108STRPBF	IR2108SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21091STRPBF	IR21091SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21094PBF	IR21094PBF	HVIC-G2-0600	PDIP14	Hana, JCET

IR21094SPBF	IR21094SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR21094STRPBF	IR21094SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2109PBF	IR2109PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2109SPBF	IR2109SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2109STRPBF	IR2109SPBF	HVIC-G2-0600	SOIC 8N	Hana
98-0169PBF	IR2133JPBF	HVIC-G2-0600	PLCC44	ASE-M
98-0286PBF	IR2133JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2133JPBF	IR2133JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2133JTRPBF	IR2133JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2133PBF	IR2133PBF	HVIC-G2-0600	PDIP28	Hana
IR2133SPBF	IR2133SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR2133STRPBF	IR2133SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR2135JPBF	IR2135JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2135JTRPBF	IR2135JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2135STRPBF	IR2135SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR21363JPBF	IR21363JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR21363JTRPBF	IR21363JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR21363STRPBF	IR21363SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR21364_98-0414_8	IR21364C	HVIC-G2-0600	DIEWAFER	n/a
IR21364C_8	IR21364C	HVIC-G2-0600	DIEWAFER	n/a
IR21364STRPBF	IR21364SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
98-0175PBF	IR2136JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2136JTRPBF	IR2136JPBF	HVIC-G2-0600	PLCC44	ASE-M
IR2136PBF	IR2136PBF	HVIC-G2-0600	PDIP28	Hana
98-5226PBF	IR2136SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR2136SPBF	IR2136SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR2136STRPBF	IR2136SPBF	HVIC-G2-0600	SOIC 28W	Carsem-M
IR21531DPBF	IR21531DPBF	HVIC-G2-0600	PDIP8	Hana
IR21531PBF	IR21531PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR21531SPBF	IR21531SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21531STRPBF	IR21531SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2153DPBF	IR2153DPBF	HVIC-G2-0600	PDIP8	Hana
IR2153PBF	IR2153PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2153SPBF	IR2153SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2153STRPBF	IR2153SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2156STRPBF	IR2156SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2166PBF	IR2166PBF	HVIC-G2-0600	PDIP16	Hana
98-0313PBF	IR2166SPBF	HVIC-G2-0600	SOIC 16N	Hana
IR2166STRPBF	IR2166SPBF	HVIC-G2-0600	SOIC 16N	Hana
IR2175SPBF	IR2175SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2175STRPBF	IR2175SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21814SPBF	IR21814SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR21814STRPBF	IR21814SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2181PBF	IR2181PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2181SPBF	IR2181SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2181STRPBF	IR2181SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21834PBF	IR21834PBF	HVIC-G2-0600	PDIP14	Hana, JCET

IR21834SPBF	IR21834SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR21834STRPBF	IR21834SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2183PBF	IR2183PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2183SPBF	IR2183SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2183STRPBF	IR2183SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR21844PBF	IR21844PBF	HVIC-G2-0600	PDIP14	Hana, JCET
98-0372PBF	IR21844SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR21844SPBF	IR21844SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR21844STRPBF	IR21844SPBF	HVIC-G2-0600	SOIC 14N	Hana
IR2184PBF	IR2184PBF	HVIC-G2-0600	PDIP8	Hana, JCET
98-0506PBF	IR2184SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2184SPBF	IR2184SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2184STRPBF	IR2184SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2301PBF	IR2301PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2301SPBF	IR2301SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2301STRPBF	IR2301SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2302PBF	IR2302PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2302SPBF	IR2302SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2302STRPBF	IR2302SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2304PBF	IR2304PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2304SPBF	IR2304SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2304STRPBF	IR2304SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2308PBF	IR2308PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR2308SPBF	IR2308SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2308STRPBF	IR2308SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2520DPBF	IR2520DPBF	HVIC-G2-0600	PDIP8	Hana
IR2520DSTRPBF	IR2520DSPBF	HVIC-G2-0600	SOIC 8N	Hana
IR25601STRPBF	IR25601SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR25603PBF	IR25603PBF	HVIC-G2-0600	PDIP8	Hana, JCET
IR25603STRPBF	IR25603SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR25604STRPBF	IR25604SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR25606STRPBF	IR25606SPBF	HVIC-G2-0600	SOIC 8N	Hana
IR2114SSPBF	IR2114SSPBF	HVIC-G2-1200	SSOP24	Carsem-M
IR2114SSTRPBF	IR2114SSPBF	HVIC-G2-1200	SSOP24	Carsem-M
IR2213C_8	IR2213PBF	HVIC-G2-1200	DIEWAFER	n/a
IR2213PBF	IR2213PBF	HVIC-G2-1200	PDIP14	Hana
IR2213SPBF	IR2213SPBF	HVIC-G2-1200	SOIC 16W	Carsem-M
IR2213STRPBF	IR2213SPBF	HVIC-G2-1200	SOIC 16W	Carsem-M
IR2214C_8	IR2214C	HVIC-G2-1200	DIEWAFER	n/a
IR2214SSPBF	IR2214SSPBF	HVIC-G2-1200	SSOP24	Carsem-M
IR2214SSTRPBF	IR2214SSPBF	HVIC-G2-1200	SSOP24	Carsem-M
98-0164PBF	IR2233JPBF	HVIC-G2-1200	PLCC44	ASE-M
IR2233JPBF	IR2233JPBF	HVIC-G2-1200	PLCC44	ASE-M
IR2233JTRPBF	IR2233JPBF	HVIC-G2-1200	PLCC44	ASE-M
IR2233PBF	IR2233PBF	HVIC-G2-1200	PDIP28	Hana
IR2233SPBF	IR2233SPBF	HVIC-G2-1200	SOIC 28W	Carsem-M
IR2233STRPBF	IR2233SPBF	HVIC-G2-1200	SOIC 28W	Carsem-M

IR2235JPBF	IR2235JPBF	HVIC-G2-1200	PLCC44	ASE-M
IR2235JTRPBF	IR2235JPBF	HVIC-G2-1200	PLCC44	ASE-M
IR2235STRPBF	IR2235SPBF	HVIC-G2-1200	SOIC 28W	Carsem-M
98-0246PBF	IR2238QPBF	HVIC-G2-1200	MQFP-64L	Carsem-S
IR2238QPBF	IR2238QPBF	HVIC-G2-1200	MQFP-64L	Carsem-S