



Product Change Notification



Product Group: Vishay Siliconix/ July 21, 2015/PCN-SIL-0262015Rev0

Vishay Siliconix Announces Additional Wafer Plating Capacity for Low Voltage MOSFET Products

DESCRIPTION OF CHANGE: As part of our continuous improvement program, Vishay Siliconix announces the qualification of FlipChip Millennium Shanghai (FCMS) as an alternative wafer plating facility for Vishay's Low Voltage MOSFET Bondwireless products.

Founded in 1996, FlipChip International is a world leader in advanced Wafer Level services including Ni-Au Plating. FlipChip's Wafer Level Processing technologies are currently licensed by several industry-leading packaging facilities such as Amkor and ASE.

CLASSIFICATION OF CHANGE: Plating site capacity expansion

REASON FOR CHANGE: Additional wafer plating service capacity

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: There will be no impact to long-term product reliability. No changes will be made to electrical performance or datasheet parameters.

PRODUCT Category: Power MOSFETs

PART NUMBERS/SERIES/FAMILIES AFFECTED: Please see pages 2-3 of this PCN for effected parts list

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments will begin in September 2015.

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

PRODUCT IDENTIFICATION: There will be no change to part numbering. Low Voltage MOSFET products processed through FCMS plating services will have a datecode x57x or later.

QUALIFICATION DATA: Please see page 4 of this PCN for Qualification Test Results.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before October 21, 2015 as specified by contract.

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SIL-0262015 Parts List

SI4010DY-T1-GE3	SI4497DY-T1-GE3	SI7110DN-T1-E3	SI7390DP-T1-E3
SI4038DY-T1-GE3	SI4564DY-T1-GE3	SI7110DN-T1-GE3	SI7390DP-T1-GE3
SI4056DY-T1-GE3	SI4590DY-T1-GE3	SI7112DN-T1-E3	SI7454DDP-T1-GE3
SI4122DY-T1-GE3	SI4626ADY-T1-E3	SI7112DN-T1-GE3	SI7456CDP-T1-GE3
SI4126DY-T1-GE3	SI4628DY-T1-GE3	SI7114ADN-T1-GE3	SI7456DDP-T1-GE3
SI4136DY-T1-GE3	SI4630DY-T1-E3	SI7114DN-T1-E3	SI7463ADP-T1-GE3
SI4154DY-T1-GE3	SI4630DY-T1-GE3	SI7116DN-T1-E3	SI7613DN-T1-GE3
SI4156DY-T1-GE3	SI4634DY-T1-E3	SI7116DN-T1-GE3	SI7615ADN-T1-GE3
SI4158DY-T1-GE3	SI4634DY-T1-GE3	SI7123DN-T1-GE3	SI7617DN-T1-GE3
SI4160DY-T1-GE3	SI4654DY-T1-GE3	SI7129DN-T1-GE3	SI7623DN-T1-GE3
SI4162DY-T1-GE3	SI4686DY-T1-E3	SI7135DP-T1-GE3	SI7625DN-T1-GE3
SI4164DY-T1-GE3	SI4686DY-T1-GE3	SI7136DP-T1-E3	SI7629DN-T1-GE3
SI4166DY-T1-GE3	SI4712DY-T1-GE3	SI7137DP-T1-GE3	SI7633DP-T1-GE3
SI4168DY-T1-GE3	SI4838BDY-T1-GE3	SI7139DP-T1-GE3	SI7634BDP-T1-E3
SI4172DY-T1-GE3	SI4838DY-T1-E3	SI7141DP-T1-GE3	SI7634BDP-T1-GE3
SI4174DY-T1-GE3	SI4838DY-T1-GE3	SI7143DP-T1-GE3	SI7635DP-T1-GE3
SI4186DY-T1-GE3	SI4840BDY-T1-E3	SI7145DP-T1-GE3	SI7655ADN-T1-GE3
SI4190ADY-T1-GE3	SI4840BDY-T1-GE3	SI7149ADP-T1-GE3	SI7655DN-T1-GE3
SI4202DY-T1-GE3	SI4842BDY-T1-E3	SI7149DP-T1-GE3	SI7658ADP-T1-GE3
SI4204DY-T1-GE3	SI4842BDY-T1-GE3	SI7157DP-T1-GE3	SI7668ADP-T1-E3
SI4286DY-T1-GE3	SI4862DY-T1-E3	SI7164DP-T1-GE3	SI7686DP-T1-E3
SI4288DY-T1-GE3	SI4864DY-T1-E3	SI7170DP-T1-GE3	SI7686DP-T1-GE3
SI4320DY-T1-E3	SI4864DY-T1-GE3	SI7174DP-T1-GE3	SI7718DN-T1-GE3
SI4368DY-T1-E3	SI4866DY-T1-E3	SI7178DP-T1-GE3	SI7726DN-T1-GE3
SI4378DY-T1-E3	SI4866DY-T1-GE3	SI7192DP-T1-GE3	SI7742DP-T1-GE3
SI4378DY-T1-GE3	SI4884BDY-T1-E3	SI7194DP-T1-GE3	SI7748DP-T1-GE3
SI4384DY-T1-E3	SI4884BDY-T1-GE3	SI7218DN-T1-E3	SI7758DP-T1-GE3
SI4384DY-T1-GE3	SI5411EDU-T1-GE3	SI7218DN-T1-GE3	SI7772DP-T1-GE3
SI4386DY-T1-E3	SI5415AEDU-T1-GE3	SI7228DN-T1-GE3	SI7774DP-T1-GE3
SI4386DY-T1-GE3	SI5415EDU-T1-GE3	SI7232DN-T1-GE3	SI7784DP-T1-GE3
SI4390DY-T1-E3	SI5442DU-T1-GE3	SI7234DP-T1-GE3	SI7788DP-T1-GE3
SI4390DY-T1-GE3	SI7100DN-T1-E3	SI7236DP-T1-E3	SI7790DP-T1-GE3
SI4408DY-T1-E3	SI7101DN-T1-GE3	SI7236DP-T1-GE3	SI7792DP-T1-GE3
SI4425DDY-T1-GE3	SI7102DN-T1-E3	SI7252DP-T1-GE3	SI7794DP-T1-GE3
SI4430BDY-T1-E3	SI7102DN-T1-GE3	SI7272DP-T1-GE3	SI7848BDP-T1-E3
SI4430BDY-T1-GE3	SI7104DN-T1-E3	SI7288DP-T1-GE3	SI7848BDP-T1-GE3
SI4442DY-T1-E3	SI7104DN-T1-GE3	SI7328DN-T1-GE3	SI7858ADP-T1-E3
SI4442DY-T1-GE3	SI7106DN-T1-E3	SI7336ADP-T1-E3	SI7858ADP-T1-GE3
SI4456DY-T1-E3	SI7106DN-T1-GE3	SI7336ADP-T1-GE3	SI7858BDP-T1-GE3
SI4456DY-T1-GE3	SI7106JN-T1-GE3	SI7384DP-T1-E3	SI7862ADP-T1-E3
SI4459ADY-T1-GE3	SI7108DN-T1-E3	SI7386DP-T1-E3	SI7866ADP-T1-E3
SI4477DY-T1-GE3	SI7108DN-T1-GE3	SI7386DP-T1-GE3	SI7866ADP-T1-GE3

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SI7868ADP-T1-E3	SIR410DP-T1-GE3	SIR850DP-T1-GE3	SIS444DN-T1-GE3
SI7880ADP-T1-E3	SIR412DP-T1-GE3	SIR862DP-T1-GE3	SIS452DN-T1-GE3
SI7880ADP-T1-GE3	SIR414DP-T1-GE3	SIR864DP-T1-GE3	SIS454DN-T1-GE3
SI7892BDP-T1-E3	SIR416DP-T1-GE3	SIR866DP-T1-GE3	SIS456DN-T1-GE3
SI7892BDP-T1-GE3	SIR418DP-T1-GE3	SIR870ADP-T1-GE3	SIS468DN-T1-GE3
SI7938DP-T1-GE3	SIR422DP-T1-GE3	SIR870DP-T1-GE3	SIS472DN-T1-GE3
SI7994DP-T1-GE3	SIR424DP-T1-GE3	SIR872ADP-T1-GE3	SIS476DN-T1-GE3
SI7997DP-T1-GE3	SIR426DP-T1-GE3	SIR872DP-T1-GE3	SIS488DN-T1-GE3
SI7998DP-T1-GE3	SIR436DP-T1-GE3	SIR876ADP-T1-GE3	SIS496EDNT-T1-GE3
SIA437DJ-T1-GE3	SIR438DP-T1-GE3	SIR878ADP-T1-GE3	SIS612EDNT-T1-GE3
SIA439EDJ-T1-GE3	SIR440DP-T1-GE3	SIR878DP-T1-GE3	SIS778DN-T1-GE3
SIA453EDJ-T1-GE3	SIR460DP-T1-GE3	SIR880ADP-T1-GE3	SIS862DN-T1-GE3
SIA466EDJ-T1-GE3	SIR462DP-T1-GE3	SIR880DP-T1-GE3	SIS888DN-T1-GE3
SIA467EDJ-T1-GE3	SIR464DP-T1-GE3	SIR882ADP-T1-GE3	SIS890DN-T1-GE3
SIE802DF-T1-E3	SIR466DP-T1-GE3	SIR882DP-T1-GE3	SIS892ADN-T1-GE3
SIE808DF-T1-E3	SIR468DP-T1-GE3	SIR890DP-T1-GE3	SIS892DN-T1-GE3
SIE810DF-T1-E3	SIR470DP-T1-GE3	SIR892DP-T1-GE3	SIS990DN-T1-GE3
SIE810DF-T1-GE3	SIR472DP-T1-GE3	SIRA00DP-T1-GE3	SISA04DN-T1-GE3
SIE812DF-T1-E3	SIR474DP-T1-GE3	SIRA02DP-T1-GE3	SISA10DN-T1-GE3
SIE812DF-T1-GE3	SIR476DP-T1-GE3	SIRA04DP-T1-GE3	SISA12ADN-T1-GE3
SIE818DF-T1-E3	SIR484DP-T1-GE3	SIRA06DP-T1-GE3	SISA12JN-T1-GE3
SIE818DF-T1-GE3	SIR492DP-T1-GE3	SIRA10DP-T1-GE3	SISA14DN-T1-GE3
SIE822DF-T1-E3	SIR496DP-T1-GE3	SIRA12DP-T1-GE3	SISA18ADN-T1-GE3
SIE822DF-T1-GE3	SIR640ADP-T1-GE3	SIRA14DP-T1-GE3	SISA18JN-T1-GE3
SIE832DF-T1-E3	SIR642DP-T1-GE3	SIRA18DP-T1-GE3	SISS23DN-T1-GE3
SIE868DF-T1-GE3	SIR644DP-T1-GE3	SIS322DNT-T1-GE3	SISS27DN-T1-GE3
SIE878DF-T1-GE3	SIR662DP-T1-GE3	SIS330DN-T1-GE3	SISS40DN-T1-GE3
SIE882DF-T1-GE3	SIR774DP-T1-GE3	SIS334DN-T1-GE3	SIZ300DT-T1-GE3
SIJ458DP-T1-GE3	SIR788DP-T1-GE3	SIS402DN-T1-GE3	SIZ340DT-T1-GE3
SIJ470DP-T1-GE3	SIR798DP-T1-GE3	SIS407DN-T1-GE3	SIZ342DT-T1-GE3
SIJ478DP-T1-GE3	SIR800DP-T1-GE3	SIS410DN-T1-GE3	SIZ342JT-T1-GE3
SIJ482DP-T1-GE3	SIR802DP-T1-GE3	SIS414DN-T1-GE3	SIZ710DT-T1-GE3
SIR158DP-T1-GE3	SIR804DP-T1-GE3	SIS415DNT-T1-GE3	SIZ728DT-T1-GE3
SIR164DP-T1-GE3	SIR818DP-T1-GE3	SIS424DN-T1-GE3	SIZ730DT-T1-GE3
SIR166DP-T1-GE3	SIR820DP-T1-GE3	SIS426DN-T1-GE3	SIZ790DT-T1-GE3
SIR172DP-T1-GE3	SIR826ADP-T1-GE3	SIS427EDN-T1-GE3	SIZ910DT-T1-GE3
SIR330DP-T1-GE3	SIR826DP-T1-GE3	SIS430DN-T1-GE3	SIZ914DT-T1-GE3
SIR401DP-T1-GE3	SIR836DP-T1-GE3	SIS434DN-T1-GE3	SIZ916DT-T1-GE3
SIR402DP-T1-GE3	SIR840DP-T1-GE3	SIS435DNT-T1-GE3	SIZ920DT-T1-GE3
SIR404DP-T1-GE3	SIR846ADP-T1-GE3	SIS439DNT-T1-GE3	SIZ920JT-T1-GE3
SIR406DP-T1-GE3	SIR846DP-T1-GE3	SIS443DN-T1-GE3	SIZ980DT-T1-GE3
SIR408DP-T1-GE3			

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TABLE 1
FlipChip Millenium Wafer Plating Qualification Results

Qualification test	Conditions	# of Lots, # of samples per lot	Time Scale Hours/Cycles	Results: samples tested/# of failures	Comments
1a. Solder Reflow Preconditioning	168 hr 85/85 3 cyc @ 250C max	All	0 Hours		This test shall apply to test 4) thru 6) below
2. HTRB	Ta = 150°C Vds = 80% rating of Vds	3 Lots, 82 samples per lot	168, 500, 1000 Hours	246/0	
3. HTGB	Ta = 150°C Vgs = 100% rating of Vgs	3 Lots, 82 samples per lot	168, 500, 1000 Hours	246/0	
4. Temperature Cycling	-65°C to +150°C air to air	3 Lots, 82 samples per lot	168, 500, 1000 Hours	246/0	
5. HAST	130C, 85% RH, Vds = 80% rating of Vds Vgs = 100% rating of Vgs	3 Lots, 82 samples per lot	100 Hours	246/0	
5. Pressure Pot	121C, 15PSI, Unbiased	3 Lots, 82 samples per lot	96 Hours	246/0	

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