

LINEAR SYSTEMS



Authorized LIS Distributor
NAC

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St. Petersburg, FL 33716

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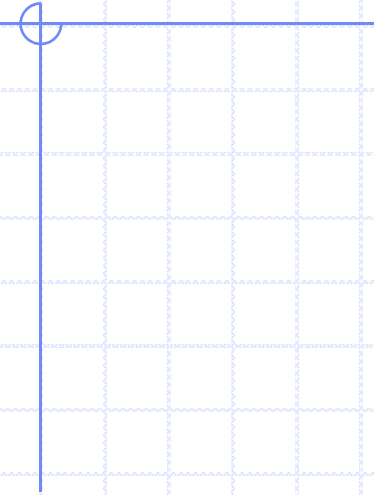
Linear Integrated Systems – Overview

- ◆ Linear Integrated Systems is a twenty year old, US based full service semiconductor manufacturer of specialty linear products.
- ◆ Our product line consists of BIFET Amplifiers, Bipolar Transistors, Current Regulating Diodes, JFETs, High Speed Lateral DMOS Switches, Low Leakage Diodes, MOSFETs, PhotoFETS, and Voltage Controller Resistors.
- ◆ We provide over 2000 second sources replacements for current, discontinued, or selected devices made by Motorola, National-Fairchild, Siliconix-Vishay, Supertex.
- ◆ Our target markets include: ATE, Audio, Medical Electronics, Military, Test and Measurement.
- ◆ In 2001, LIS acquired the High Speed Lateral DMOS Switch product line from Siliconix, at the request of a mutual customer, to support on going usage in their new and existing products.

Linear Integrated Systems - Background

- ◆ Linear Integrated Systems was founded in 1987.
- ◆ Founder and company president, John Hall, founded both Intersil, and Micro Power Systems. John holds numerous patents for semiconductor processes and designs. He also developed the worlds first CMOS Digital Watch circuit for Seiko.
- ◆ 4 Inch Wafer Fabrication Facility located in Fremont, CA.
- ◆ 40 years of semiconductor design and fabrication experience in Bipolar, CMOS, Lateral DMOS, Thin-Film Resistors, and Radiation Hard Fabrication Processes.
- ◆ Design, Test are located in Fremont. Assembly is performed by subcontractors in Asia and India.

Vishay/Siliconix JFET Products Discontinuance





Product Change Notification



Product Group: Vishay Siliconix/April 10, 2007/PCN-SIL-0162007 Rev 0

Notification of Obsolescence of Vishay Siliconix Commercial JFET Products

DESCRIPTION OF CHANGE: Over the past decade, Vishay Siliconix' commercial JFET product portfolio has seen declining demand as these parts reach the end of their lifecycle. At the same time, older wafer fabrication plants have been closed as we moved to newer facilities. As a result, we have ceased production on many commercial JFET die types and have depleted remaining die inventory in support of existing business.

CLASSIFICATION OF CHANGE: Obsolescence

REASON FOR CHANGE: Depletion of Die Inventory

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: NA

PRODUCT CATEGORY: Commercial JFET Products

PART NUMBERS/SERIES/FAMILIES AFFECTED: See Page 2 & 3 of this PCN

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: For product with no die, we cannot support lifetime purchases; for product with limited remaining die, we will support lifetime buys as possible and on a case by case basis. There are no replacements or suggested alternative part numbers available.

SAMPLE AVAILABILITY: NA

PRODUCT IDENTIFICATION: NA

QUALIFICATION DATA: NA

ISSUED BY: Randy Stark, Vishay Siliconix, Product Marketing Manager. E-mail address:
Randy.Stark@Vishay.com

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



Product Change Notification



Product Group: Vishay Silicnix/April 10, 2007/PCN-SIL-0162007 Rev 0



Commercial JFET Obsolescence Parts List

J105	J110-TA	J501-E3	J9013	SST109-E3
J105-18	J110-TR1	J502	J9016	SST109-T1-E3
J105-E3	J110-TR1-E3	J502-E3	J9027-TR3	SST110-E3
J105-TA	J177	J502-TA	J9060-TR3	SST110-T1-E3
J105-TR1	J177-18	J502-TR1	J9084-TR1	SST3958NL-E3
J105-TR1-E3	J177-18-E3	J502-TR1-E3	NCL0190C	SST3958NL-T1-E3
J106	J177-E3	J503	NCL0193C	SST404-E3
J106-18	J177-TA	J503-18	NIP0193C	SST404NL-E3
J106-18-E3	J177-TA-E3	J503-E3	NIP1000	SST404NL-T1-E3
J106-E3	J177-TR1	J504	NIP1002	SST404-T1-E3
J106-TR1	J177-TR1-E3	J504-E3	NIP1CHP	SST406-E3
J106-TR1-E3	J2346	J510	NIP2CHP	SST406NL-E3
J107	J2354	J510-E3	NIP3CHP	SST406NL-T1-E3
J107-18	J2358	J510-TR1	NNR1CHP	SST406-T1-E3
J107-18-E3	J2402	J510-TR1-E3	NNT0104C	SST421NL-E3
J107-E3	J2529/J106	J6006	NNT0107C	SST421NL-T1-E3
J107-TR1	J2601	J6006-TR3	NNT0107CS	SST423NL-E3
J107-TR1-E3	J270	J6027	NNT0123C	SST423NL-T1-E3
J107-TR3	J270-18	J6027-TR3	NNT0125CS	SST5198NL-E3
J108	J2708	J6039	NNT0126C	SST5198NL-T1-E3
J108-18	J270-E3	J6040	NNT0129C	SST5199NL-E3
J108-18-E3	J270-TR1	J6047	NNT1CHP	SST5199NL-T1-E3
J108-E3	J270-TR1-E3	J6049	NQP0103C	SST5546NL-E3
J108-TA	J271	J6077	NQP0130C	SST5546NL-T1-E3
J108-TR1	J271-18	J6084	NQP0135C	SST5547NL-E3
J108-TR1-E3	J271-E3	J6102	NQP0137C	SST5547NL-T1-E3
J108-TR3	J271-TA	J6102-TR1	NQP0144C	SSTDPA05-E3
J108-TR5	J271-TR1	J6112	NQP1CHP	SSTDPA05-T1-E3
J109	J2771	J6124	NVA1CHP	SST03A-T1-E3
J109-18	J2778A	J6130	NVA2CHP	SST03-T1-E3
J109-18-E3	J2778A-E3	J6148-TR1	NVA3CHP	SSTN02-T1-E3
J109-E3	J2786	J6149-TR1	P1086	SSTV01
J109-TA	J2823	J6152	PSCIA0148C	SSTV01-T1
J109-TR1	J2900-TR3	J6152-TR7	PSCIA0108C	SSTV01-T1-E3
J109-TR1-E3	J2901	J6156-TR7	PSCIA0131C	SSTV02-T1
J109-TR3	J2901-TR3	J9004	PSCIA0132C	WN1158
J109-TR5	J2919	J9004-TR3	PSCIA1CHP	WN1158-TA
J110	J3003	J9009	PSCIA2CHP	WN1158-TR1
J110-18	J500	J9009-TR3	PSCIA4CHP	WN818
J110-18-E3	J500-E3	J9010	SST108-E3	WP133
J110-E3	J501	J9010-TR3	SST108-T1-E3	WP146-TR1

ADDITIONAL OBSOLETE COMMERCIAL JFETS

SST500	SST504	U403
SST500-E3	SST504-E3	U404
SST500-T1-E3	SST504-T1-E3	U404
SST501	SST510	U404
SST501-E3	SST510-E3	U404
SST501-T1-E3	SST510-T1-E3	U401
SST502	U401	U401
SST502-E3	U401-2	U401
SST502-T1-E3	U401-E3	U401
SST503	U401NL	U401
SST503-E3	U401NL-E3	U401
SST503-T1-E3	U402	U401
SST177	U402-E3	
SST177-E3		
SST177-T1		
SST177-T1-E3		

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0667 www.vishay.com

ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT

Vishay/Siliconix JFET Products – Discontinuance

- ◆ Vishay/Siliconix, founded 1962, first acquired in 1998 by Temic Daimler-Benz, later acquired in 2005 by Vishay, is the largest domestic supplier of JFETs.
- ◆ Throughout its 45 year history, and numerous acquisitions, several JFET products and families have been reduced or completely discontinued, along with special selections.
- ◆ Per Vishay/Siliconix Product Change Notice (PCN-SIL-016-2007), portions of the Vishay/Siliconix JFET product line are at the end of their lifecycle, and wafer fabrication had been ceased years prior.
- ◆ Vishay/Siliconix is unable to support end of life buys.
- ◆ Vishay/Siliconix is depleting remaining inventory by attempting to support existing customers.
- ◆ No replacement devices or suggested alternative devices are offered by Vishay/Siliconix per that Product Change Notice.

Vishay/Siliconix JFET Products – Discontinued Part List

Singles(Amplifiers & Switches):

J105, J106, J107, J108, J109, J110, J177, J270, J271,
SST103, SST108, SST109, SST110, SST177

Dual(Amplifiers):

SST3958, SST404, SST406, SST421, SST423, SST5198,
SST5199, SST5545, SST5546, SST5547, U401, U402, U403,
U404, U405, U406,

Current Regulating Diodes:

J500, J501, J502, J503, J504, J510, SST500, SST501,
SST502, SST503, SST504, SST510

Low Leakage Diodes:

SSTDPA5

Vishay/Siliconix JFET Products – Maskset List Overview

Singles(Amplifiers & Switches):

Discontinued-NIP, NVA, PSCIA

Remaining-NCB, NCL, NH, NPA, NT, NZB, NZF, PSCIA

Dual(Amplifiers):

Discontinued-NNR, NNT, NQP

Remaining-NCBD, NZBD, NZFD, NNZ

Current Regulating Diodes:

Discontinued-NCL, NPA

Remaining-NKO

Low Leakage Diodes:

Discontinued-NNR

Remaining-NPA, NT

Vishay/Siliconix JFET Products – Remaining Part List

Singles(Amplifiers & Switches):

NCB- 2N4391-2N4393, 2N4856-2N4861

NH- 2N3819, 2N/SST4416, 2N5485-2N5486, J/SST304-305

NKO- CR160-CR470

NPA- 2N4338-2N4341, J/SST201, J/SST202,

NT- 2N/PN/SST4117-2N/PN/SST4119A

NZB- J/SST308-J/SST310

NZF- J210-J212

PSCIA- 2N5114-2N5116, J/SST174-J/SST177, J/SST270,
J/SST271, P1086, P1087

Dual(Amplifiers):

NCBD- 2N5564-2N5566

NZBD- U430, U431

NZFD- 2N5911, 2N5912, U440, U441

NNZ- SST441

Vishay/Siliconix JFET Products – Remaining Part List

Current Regulating Diodes:

CR160-CR470

Low Leakage Diodes:

NPA- PAD50/JPAD50, SSTPAD100

NT- JPAD1, PAD1, PAD5, SSTPAD5

Linear Integrated Systems – Unique Ability to Support Vishay/Siliconix JFET Customers

- ◆ LIS has been supporting Vishay/Siliconix JFET Customers for the past 20 years using our Pin for Pin Replacement JFET Products.
- ◆ LIS has provided special electrical test selections before and after Vishay/Siliconix discontinued this service to its JFET Customers.
- ◆ Established track record of supporting Vishay/Siliconix customers as a result of the acquisition of the Lateral DMOS Switch Product Line from Vishay/Siliconix in 2001.
- ◆ Proactively reaching out to Siliconix JFET Customers through extensive internet marketing campaigns, print advertisements in 3 continents, and customer visits.

JFETS

Second Source Replacement for Siliconix



Monolithic Duals-JFETS

- SST/U401-406 Series
- SST/U441 Series
- SST/2N3958 Series
- SST/2N5196-5199 Series
- SST/2N5545-5547 Series
- SST/2N5564-5566 Series
- U421-423 Series
- U430-431 Series

Current Regulating Diodes

- J500-J511 Series
- SST502-SST511 Series

Low Leakage Diodes

- DPAD1-50 Series
- JPAD5-50 Series
- PAD1-50 Series
- SSTPAD5-100 Series
- SSTDPAD5-100 Series

Features

Surface Mount & Thru Hole
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1-800-359-4023

LINEAR SYSTEMS

www.linearsystems.com

JFETS

Second Source Ersatzprodukte Fur Siliconix



Monolithische Duals-JFETS

- SST/U401-406 Series
- SST/U441 Series
- SST/2N3958 Series
- SST/2N5196-5199 Series
- SST/2N5545-5547 Series
- SST/2N5564-5566 Series
- U421-423 Series
- U430-431 Series

Dioden Zur Stromregelung

- J500-J511 Series
- SST502-SST511 Series

Dioden Mit Geringem Leckstrom

- DPAD1-50 Series
- JPAD5-50 Series
- PAD1-50 Series
- SSTPAD5-100 Series
- SSTDPAD5-100 Series

Eigenschaften

Zusätzlicher Abschirmung erhältlich
ROHS-Konform verfügbar
SMD-Package verfügbar
Sofortige Lieferung

Distributors

Deutschland: +49 7533 949 8760
Österreich: +43 7448-7018

LINEAR SYSTEMS

www.linearsystems.com

JFETS

Produit 2^{eme} Source Pour Siliconix



Double JFETS Monolithique

- SST/U401-406 Series
- SST/U441 Series
- SST/2N3958 Series
- SST/2N5196-5199 Series
- SST/2N5545-5547 Series
- SST/2N5564-5566 Series
- U421-423 Series
- U430-431 Series

Diodes de Regulation Courant

- J500-J511 Series
- SST502-SST511 Series

Diodes Faible Courant de Fuite

- DPAD1-50 Series
- JPAD5-50 Series
- PAD1-50 Series
- SSTPAD5-100 Series
- SSTDPAD5-100 Series

Informations Générales

Produits RoHS
Boitiers Montage de Surface Disponible
Stock Disponible

Distributeur

France: +33 (0) 1-6959-2150

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JFET

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 • SST/U441 シリーズ
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 • SST/2N5545-5547 シリーズ
 • SST/2N5564-5566 シリーズ
 • U421-423 シリーズ
 • U430-431 シリーズ

定電流 ダイオード
 • J500-J511 シリーズ
 • SST502-SST511 シリーズ

Low Leakage ダイオード
 • DPAD1-50 シリーズ
 • JPAD5-50 シリーズ
 • PAD1-50 シリーズ
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特徴

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LINEAR SYSTEMS

製造元

www.linearsystems.com

Facts Regarding the Vishay/Siliconix JFET Product Discontinuance

- 1> The cessation of wafer fabrication and ongoing depletion of remaining wafer inventories are key factors in current and expected future Vishay/Siliconix JFET Product Discontinuances.
- 2> Their decision to exit the market without adequate advanced notice and not providing customers the opportunity to place end of life buys continues to cause widespread customer problems.
- 3> Their customers have three options when dealing with this discontinuance:
 - Discontinue the end product
 - Redesign the end product
 - Qualify a Second Source.
- 4> Qualifying a Second Source has proven to be the least expensive, and least impact of the three available options for most of their customer.

Facts Regarding the Vishay/Siliconix JFET Product Discontinuance

- 5> LIS is the only Second Source for these and future discontinued Vishay/Siliconix JFET Products, in some cases.
- 6> LIS's current JFET product line Second Sources the entire Vishay/Siliconix JFET product line on both the discontinued and remaining part numbers.

Linear Integrated Systems – How to find us



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