

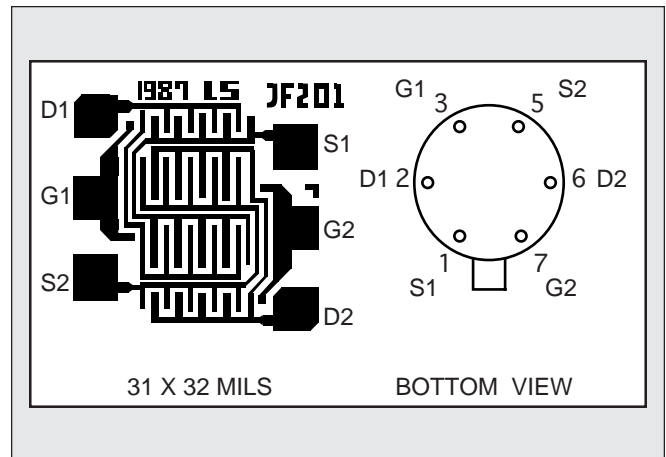
LINEAR SYSTEMS

Linear Integrated Systems

LS843 LS844 LS845

ULTRA LOW NOISE LOW DRIFT
MONOLITHIC DUAL N-CHANNEL JFET

| FEATURES | | |
|--|--|------|
| ULTRA LOW NOISE | $e_n = 3\text{nV}/\sqrt{\text{Hz}}$ TYP. | |
| LOW LEAKAGE | $I_G = 15\text{pA}$ TYPs. | |
| LOW DRIFT | $ \Delta V_{GS1-2}/\Delta T = 5\mu\text{V}/^\circ\text{C}$ max. | |
| ULTRA LOW OFFSET VOLTAGE | $ V_{GS1-2} = 1\text{mV}$ max. | |
| ABSOLUTE MAXIMUM RATINGS NOTE 1 | | |
| @ 25°C (unless otherwise noted) | | |
| Maximum Temperatures | | |
| Storage Temperature | -65° to +150°C | |
| Operating Junction Temperature | +150°C | |
| Maximum Voltage and Current for Each Transistor NOTE 1 | | |
| $-V_{GSS}$ | Gate Voltage to Drain or Source | 60V |
| $-V_{DSO}$ | Drain to Source Voltage | 60V |
| $-I_{G(f)}$ | Gate Forward Current | 50mA |
| Maximum Power Dissipation | | |
| Device Dissipation @ Free Air - Total | 400mW @ +125°C | |

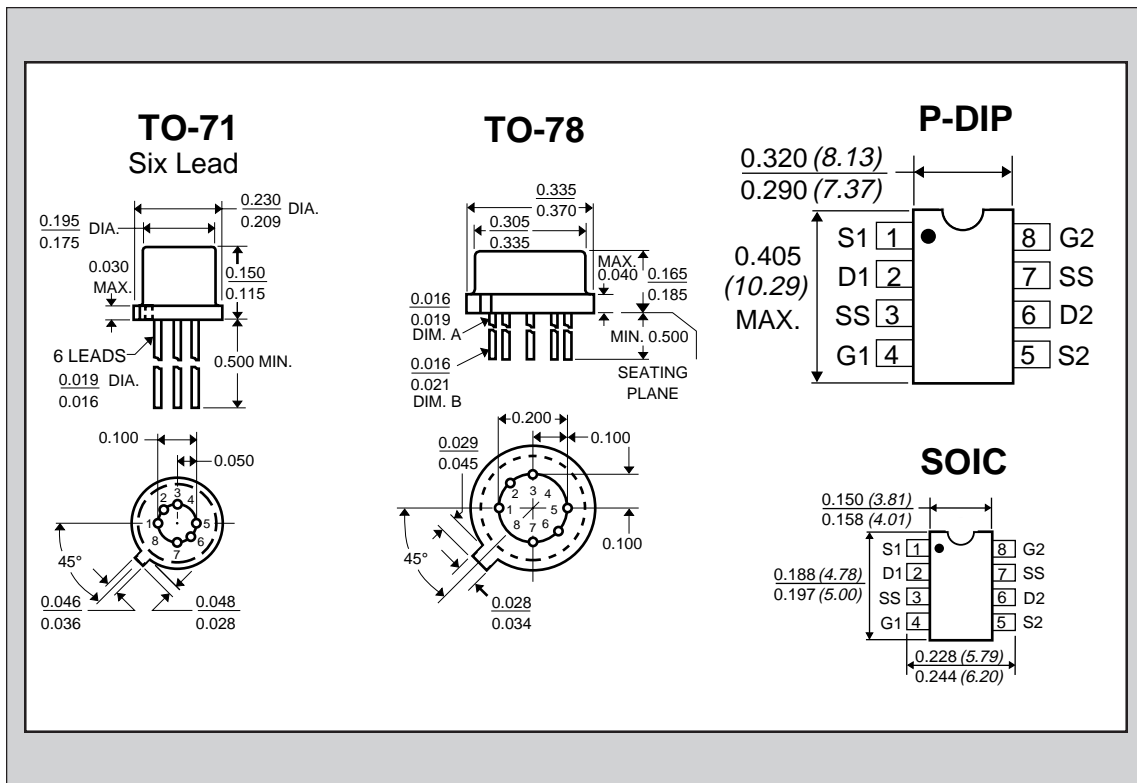


ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

| SYMBOL | CHARACTERISTICS | LS843 | LS844 | LS845 | UNITS | CONDITIONS |
|------------------------------------|-----------------------|-------|-------|-------|------------------------------|--|
| $ \Delta V_{GS1-2}/\Delta T $ max. | Drift vs. Temperature | 5 | 10 | 25 | $\mu\text{V}/^\circ\text{C}$ | $V_{DG} = 10\text{V}$ $T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$ $I_D = 500\mu\text{A}$ |
| $ V_{GS1-2} $ max. | Offset Voltage | 1 | 5 | 15 | mV | $V_{DG} = 10\text{V}$ $I_D = 500\mu\text{A}$ |

| SYMBOL | CHARACTERISTICS | MIN. | TYP. | MAX. | UNITS | CONDITIONS |
|------------------------|-----------------------------|------|------|------|-----------------|---|
| BV_{GSS} | Breakdown Voltage | 60 | -- | -- | V | $V_{DS} = 0$ $I_D = 1\text{nA}$ |
| BV_{GGO} | Gate-to-Gate Breakdown | 60 | -- | -- | V | $I_G = 1\text{nA}$ $I_D = 0$ $I_S = 0$ |
| TRANSCONDUCTANCE | | | | | | |
| Y_{fss} | Full Conduction | 1500 | -- | -- | μmho | $V_{DG} = 15\text{V}$ $V_{GS} = 0$ $f = 1\text{kHz}$ |
| Y_{fs} | Typical Conduction | 1000 | 1500 | -- | μmho | $V_{DG} = 15\text{V}$ $I_D = 500\mu\text{A}$ |
| $ Y_{fs1-2}/Y_{fs} $ | Mismatch | -- | 0.6 | 3 | % | |
| DRAIN CURRENT | | | | | | |
| I_{DSS} | Full Conduction | 1.5 | 5 | 15 | mA | $V_{DG} = 15\text{V}$ $V_{GS} = 0$ |
| $ I_{DSS1-2}/I_{DSS} $ | Mismatch at Full Conduction | -- | 1 | 5 | % | |
| GATE VOLTAGE | | | | | | |
| $V_{GS(off)}$ or V_P | Pinchoff Voltage | 1 | -- | 3.5 | V | $V_{DS} = 15\text{V}$ $I_D = 1\text{nA}$ |
| V_{GS} | Operating Range | 0.5 | -- | 3.5 | V | $V_{DS} = 15\text{V}$ $I_D = 500\mu\text{A}$ |
| GATE CURRENT | | | | | | |
| $-I_G$ | Operating | -- | 15 | 50 | pA | $V_{DG} = 15\text{V}$ $I_D = 500\mu\text{A}$ |
| $-I_G$ | High Temperature | -- | -- | 50 | nA | $V_{DG} = 15\text{V}$ $I_D = 500\mu\text{A}$ $T_A = +125^\circ\text{C}$ |
| $-I_G$ | Reduced VDG | -- | 5 | 30 | pA | $V_{DG} = 3\text{V}$ $I_D = 500\mu\text{A}$ |
| $-I_{GSS}$ | At Full Conduction | -- | -- | 100 | pA | $V_{DG} = 15\text{V}$ $V_{DS} = 0$ |

| SYMBOL | CHARACTERISTICS | MIN. | TYP. | MAX. | UNITS | CONDITIONS |
|------------------------------|---|------|------|------|------------------------------|--|
| OUTPUT CONDUCTANCE | | | | | | |
| Y_{OSS} | Full Conduction | -- | -- | 20 | μmho | $V_{DG} = 15\text{V}$ $V_{GS} = 0$ |
| Y_{OS} | Operating | -- | 0.2 | 2 | μmho | $V_{DG} = 15\text{V}$ $I_D = 500\mu\text{A}$ |
| $ Y_{OS1-2} $ | Differential | -- | 0.02 | 0.2 | μmho | |
| COMMON MODE REJECTION | | | | | | |
| CMR | $-20 \log \Delta V_{GS1-2} / \Delta V_{DS} $ | 90 | 110 | -- | dB | $\Delta V_{DS} = 10 \text{ to } 20\text{V}$ $I_D = 500\mu\text{A}$ |
| CMR | | -- | 85 | -- | dB | $\Delta V_{DS} = 5 \text{ to } 10\text{V}$ $I_D = 500\mu\text{A}$ |
| NOISE | | | | | | |
| NF | Figure | -- | -- | 0.5 | dB | $V_{DS} = 15\text{V}$ $V_{GS} = 0$ $R_G = 10\text{M}\Omega$ $f = 100\text{Hz}$ NBW= 6Hz |
| e_n | Voltage | -- | -- | 7 | $\text{nV}/\sqrt{\text{Hz}}$ | $V_{DS} = 15\text{V}$ $I_D = 500\mu\text{A}$ $f = 1\text{kHz}$ NBW= 1Hz |
| e_n | Voltage | -- | -- | 11 | $\text{nV}/\sqrt{\text{Hz}}$ | $V_{DS} = 15\text{V}$ $I_D = 500\mu\text{A}$ $f = 10\text{Hz}$ NBW= 1Hz |
| CAPACITANCE | | | | | | |
| C_{ISS} | Input | -- | -- | 8 | pF | $V_{DS} = 15\text{V}$ $I_D = 500\mu\text{A}$ |
| C_{RSS} | Reverse Transfer | -- | -- | 3 | pF | |
| C_{DD} | Drain-to-Drain | -- | 0.5 | -- | pF | $V_{DG} = 15\text{V}$ $I_D = 500\mu\text{A}$ |



NOTES:

1. These ratings are limiting values above which the serviceability of any semiconductor may be impaired.



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Linear Integrated Systems Lead-Free / RoHS Fact Sheet



The following is provided to address some of the more commonly asked questions regarding how LIS is meeting customer demand to supply product which is compliant to the RoHS and WEEE Directives. If you have any questions or need further information, please contact the LIS factory for assistance.

Linear Integrated Systems can supply parts that do not contain the following Banned Substances:

- Asbestos
- Azo Compounds
- Cadmium
- Cadmium Compounds
- Chlorinated Paraffins
- Hexavalent Chromium Compounds
- Formaldehyde
- Lead (Pb)
- Mirex (Perchlordecone)
- Mercury and Mercury Compounds
- Organic Tin Compounds (Tributyl Tin & Triphenyl Tin)
- Ozone Depletion Substances
- PBB(Polybromobiphenyl)
- PBDE (Polybromobiphenyl Biphenyls Ethers Category)
- PCB (Polychlorinated Biphenyls)
- Polychlorinated Naphthalene

Package Types:

The following packages do not and has never contained any of the above mentioned substances:

- Bare Die, (Metal Can) TO-18, TO-5, TO-52, TO-71, TO-72, TO-78, TO-99:

The following packages are available in Lead-Free / RoHS versions:

- MSOP, QSOP, SOIC, SOT, TO-92.

Metal Can Facts:

- Headers-Nickel with Gold Plating, Cans-100% Nickel



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for Lead-Free / RoHS
Part List

Plastic Package Facts:

- Plating Material: Plastic Packages- Matte 100% Tin
- Material of Lead Frame: Copper 194, or Alloy 42
- Lead Content of the Plating Material: Lead Free (Less than 0.1%, 1000ppm by weight)
- Soldering: Maximum Temperature=260 Degree C, Maximum Time=20-40 seconds
- Reflow Profile: Peak Temperature=260 Degree C, Peak Time=20-40 seconds
- Acceptable number of Reflows: 3 times
- Backward Compatibility: Lead Free packages can be soldered using existing Sn-Pb solder and temperature profiles
- Forward Compatibility: Lead Free Packages can be soldered using lead free solders and the appropriate higher temperature profiles
- Storage Conditions: Jedec Std. 20, Level 1

Questions:

Q1: When does LIS plan to offer Lead Free packaging to its customers?

A1: LIS has begun offering customers Lead Free packaging for plastic packages as of 1/1/04, per customer request.

Q2: When does LIS plan to offer RoHS compliant packaging to its customers?

A2: LIS has begun offering customers RoHS compliant packaging for its plastic packages as of 1/1/05, per customer request.

Q3: Will LIS continue to offer Non-Lead Free (contains lead) packaging to its customers?

A3: Yes, LIS will continue to offer Non-Lead Free packaging, per customer request.

Q4: How do I order Lead Free parts versus Non-Lead Free Parts?

A4: When ordering, specify "Lead-Free" in your part description on Purchase Orders and Quotations.

Q5: How do I order RoHS Compliant Parts versus Non-RoHS Compliant Parts?

A5: When ordering, specify "RoHS Compliant" in your part description on Purchase Orders and Quotations.

Q6: How will I be able to identify a Lead-Free / RoHS Compliant Part versus a Non-Lead Free Part / Non RoHS Compliant Part?

A6: The Lead-Free RoHS Compliant Part will be marked with the letter "F".

Q7: Are there any additional costs for ordering Lead-Free or RoHS Compliant

Parts?

A7: Determined on a case by case basis.

Q8: What is the LIS policy on Lead-Free implementation?

A8: LIS will continue to supply requirements for both Lead-Free Parts and Non-Lead Free parts per customer request.

Q9: What is the LIS policy on RoHS Compliant Part implementation?

A9: LIS has begun converting to ROHS Compliant mold compound on all plastic Packages effective 1/1/05. All parts with date codes prior 1/1/05 are not made of RoHS compliant mold compound.

Ordering Information:

1. RoHS Compliant (Lead-Free and PBDE-Free) Parts:

The part description must include the term "RoHS Compliant". Do not include the letter "F", it must state RoHS Compliant. Purchase Orders that do not specifically state RoHS Compliant will be shipped either "Leaded-Parts" or "RoHS Compliant parts" depending on our inventory.

2. Leaded (Devices that contain lead) Parts:

The part description must include the term "Leaded Part". Purchase Orders that do not specifically state "Leaded Part" will be shipped either "Leaded-Parts" or "RoHS Compliant parts" depending on our inventory.

3. Disclaimer:

LIS will not be responsible for accepting the return of any parts that were not ordered correctly by the customer.



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Lead (Pb) Free / RoHS Compliant Parts List



The follow listed parts are currently available in Lead (Pb) Free and RoHS Compliant Packages.



Die and Metal Can Customers: The Bare Die and Metal Can versions of the products listed were never manufactured with lead or any RoHS Banned Substances.



Elastic and Surface Mount Customers: The MSOP, QSOP, SOIC, SOT and TO-92 versions listed which may have previously contained lead and RoHS Banned Substances in the past, are now available in Lead (Pb) Free and RoHS Compliant Packages.



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*All single devices available in TO-92, TO-18, SOT-23-3, Tested Die

*All Dual Devices available in PDIP, TO-71, TO-5, SOIC-8, SOT23-6, Tested Die

*All Single DMOS Switches available in TO-72, SOT-143, Tested Die

*All Quad DMOS Switches available in PDIP, Sidebrazed, SOIC-14, SOIC-16, Tested Die

| | |
|---------|---|
| 2N3954A | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N3954 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N3955 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N3956 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N3958 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N4117A | Ultra High Input Impedance N-Channel JFET Amplifier |
| 2N4118A | Ultra High Input Impedance N-Channel JFET Amplifier |
| 2N4119A | Ultra High Input Impedance N-Channel JFET Amplifier |
| 2N4351 | N-Channel Enhancement Mode MOSFET |
| 2N4391 | Low Noise, N-Channel JFET Switch |
| 2N4392 | Low Noise, N-Channel JFET Switch |
| 2N4393 | Low Noise, N-Channel JFET Switch |
| 2N4416A | Wideband, High Gain, Single, N- Channel JFET |
| 2N4416 | Wideband, High Gain, Single, N- Channel JFET |
| 2N5018 | P-Channel, Single, JFET Switch |
| 2N5019 | P-Channel, Single, JFET Switch |
| 2N5114 | P-Channel, Single, JFET Switch |
| 2N5115 | P-Channel, Single, JFET Switch |

| | |
|---------|---|
| 2N5116 | P-Channel, Single, JFET Switch |
| 2N5905 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N5906 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N5907 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N5908 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N5909 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| 2N5911 | Wideband, High Gain, Monolithic Dual, N- Channel JFET |
| 2N5912 | Wideband, High Gain, Monolithic Dual, N- Channel JFET |
| 2N5912C | Wideband, High Gain, Monolithic Dual, N- Channel JFET |
| 3N163 | P-Channel Enhancement Mode MOSFET |
| 3N164 | P-Channel Enhancement Mode MOSFET |
| 3N165 | Monolithic Dual, P-Channel Enhancement Mode MOSFET |
| 3N166 | Monolithic Dual, P-Channel Enhancement Mode MOSFET |
| 3N170 | N-Channel Enhancement Mode MOSFET |
| 3N171 | N-Channel Enhancement Mode MOSFET |
| 3N190 | P-Channel Enhancement Mode MOSFET |
| 3N191 | P-Channel Enhancement Mode MOSFET |
| DPAD1 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| DPAD2 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| DPAD5 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| DPAD10 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| DPAD20 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| DPAD50 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| DPAD100 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| ID100 | Monolithic Dual, Low Leakage Pico-Amp Diodes |
| ID101 | Dual, Low Leakage Pico-Amp Diodes |
| IT120A | Monolithic Dual, NPN Transistor |
| IT120 | Monolithic Dual, NPN Transistor |
| IT121 | Monolithic Dual, NPN Transistor |
| IT122 | Monolithic Dual, NPN Transistor |
| IT124 | Super Beta, Monolithic Dual, NPN Transistor |
| IT130A | Monolithic Dual, PNP Transistor |
| IT130 | Monolithic Dual, PNP Transistor |
| IT131 | Monolithic Dual, PNP Transistor |
| IT132 | Monolithic Dual, PNP Transistor |
| J108 | Low Noise N-Channel JFET Switch |
| J109 | Low Noise N-Channel JFET Switch |
| J110 | Low Noise N-Channel JFET Switch |
| J111 | High Speed N-Channel JFET Switch |
| J112 | High Speed N-Channel JFET Switch |
| J113 | High Speed N-Channel JFET Switch |
| J174 | P-Channel, Single, JFET Switch |

| | |
|---------|---|
| J175 | P-Channel, Single, JFET Switch |
| J176 | P-Channel, Single, JFET Switch |
| J177 | P-Channel, Single, JFET Switch |
| J201 | Low Noise, Single, N-Channel JFET Amplifier |
| J202 | Low Noise, Single, N-Channel JFET Amplifier |
| J204 | Low Noise, Single, N-Channel JFET Amplifier |
| J210 | Low Noise N-Channel JFET General Purpose Amplifier |
| J211 | Low Noise N-Channel JFET General Purpose Amplifier |
| J212 | Low Noise N-Channel JFET General Purpose Amplifier |
| J308 | Wideband, High Gain, Single, N- Channel JFET |
| J309 | Wideband, High Gain, Single, N- Channel JFET |
| J310 | Wideband, High Gain, Single, N- Channel JFET |
| J500 | Current Regulator Diode |
| J501 | Current Regulator Diode |
| J502 | Current Regulator Diode |
| J503 | Current Regulator Diode |
| J504 | Current Regulator Diode |
| J505 | Current Regulator Diode |
| J506 | Current Regulator Diode |
| J507 | Current Regulator Diode |
| J508 | Current Regulator Diode |
| J509 | Current Regulator Diode |
| J510 | Current Regulator Diode |
| J511 | Current Regulator Diode |
| JPAD5 | Single, Low Leakage Pico-Amp Diodes |
| JPAD10 | Single, Low Leakage Pico-Amp Diodes |
| JPAD20 | Single, Low Leakage Pico-Amp Diodes |
| JPAD50 | Single, Low Leakage Pico-Amp Diodes |
| JPAD100 | Single, Low Leakage Pico-Amp Diodes |
| JPAD200 | Single, Low Leakage Pico-Amp Diodes |
| JPAD500 | Single, Low Leakage Pico-Amp Diodes |
| LS301 | High Voltage, Super Beta, Monolithic Dual, NPN Transistor |
| LS302 | High Voltage, Super Beta, Monolithic Dual, NPN Transistor |
| LS303 | High Voltage, Super Beta, Monolithic Dual, NPN Transistor |
| LS310 | Tightly Matched, Monolithic Dual, NPN Transistor |
| LS311 | Tightly Matched, Monolithic Dual, NPN Transistor |
| LS312 | Tightly Matched, Monolithic Dual, NPN Transistor |
| LS313 | Tightly Matched, Monolithic Dual, NPN Transistor |
| LS318 | Log Conformance, Monolithic Dual, NPN Transistor |
| LS320 | Monolithic BIFET Amplifier(P-Channel MOSFET and NPN) |
| LS3250 | Higher Current, Monolithic Dual, NPN Transistor |
| LS350 | Tightly Matched, Monolithic Dual, PNP Transistor |

| | |
|--------|---|
| LS351 | Tightly Matched, Monolithic Dual, PNP Transistor |
| LS352 | Tightly Matched, Monolithic Dual, PNP Transistor |
| LS3550 | Higher Current, Monolithic Dual, PNP Transistor |
| LS358 | Log Conformance, Monolithic Dual, PNP Transistor |
| LS5301 | High Impedance, Single, N-Channel JFET |
| LS627 | Photo FET, N-Channel JFET |
| LS823 | High Speed N-Channel Lateral DMOS JFET Switch |
| LS824 | High Speed N-Channel Lateral DMOS JFET Switch |
| LS830 | Ultra Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| LS831 | Ultra Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| LS832 | Ultra Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| LS833 | Ultra Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| LS840 | Low Noise, Low Drift, Low Capacitance, Monolithic Dual, N-Channel JFET |
| LS841 | Low Noise, Low Drift, Low Capacitance, Monolithic Dual, N-Channel JFET |
| LS842 | Low Noise, Low Drift, Low Capacitance, Monolithic Dual, N-Channel JFET |
| LS843 | Ultra Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| LS844 | Ultra Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| LS845 | Ultra Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| LS846 | Ultra Low Noise, Low Drift, Single, N-Channel JFET |
| LSK170 | 1nV / hz Low Noise, Low Capacitance, High Input Impedance, N-Channel JFET Amplifier |
| LSK389 | 1nV/hz Low Noise, Monolithic Dual, N-Channel JFET |
| PAD1 | Low Leakage, Single, Pico-Amp Diode |
| PAD2 | Low Leakage, Single, Pico-Amp Diode |
| PAD5 | Low Leakage, Single, Pico-Amp Diode |
| PAD10 | Low Leakage, Single, Pico-Amp Diode |
| PAD20 | Low Leakage, Single, Pico-Amp Diode |
| PAD50 | Low Leakage, Single, Pico-Amp Diode |
| PAD100 | Low Leakage, Single, Pico-Amp Diode |
| PF5301 | High Impedance, Single, N-Channel JFET |
| SD210 | High Speed N-Channel Lateral DMOS JFET Switch |
| SD211 | High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection |
| SD213 | High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection |
| SD214 | High Speed N-Channel Lateral DMOS JFET Switch |
| SD215 | High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection |
| SD5000 | Quad High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection |
| SD5001 | Quad High Speed N-Channel Lateral DMOS JFET Switch With Zener |

| | |
|----------|---|
| | Diode Protection |
| SD5400 | Quad High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection(SMT) |
| SD5401 | Quad High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection(SMT) |
| SD823 | High Speed N-Channel Lateral DMOS JFET Switch |
| SD824 | High Speed N-Channel Lateral DMOS JFET Switch |
| SST111 | High Speed N-Channel JFET Switch(SMT) |
| SST112 | High Speed N-Channel JFET Switch(SMT) |
| SST113 | High Speed N-Channel JFET Switch(SMT) |
| SST174 | P-Channel, Single, JFET Switch(SMT) |
| SST175 | P-Channel, Single, JFET Switch(SMT) |
| SST176 | P-Channel, Single, JFET Switch(SMT) |
| SST210 | High Speed N-Channel Lateral DMOS JFET Switch(SMT) |
| SST211 | High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection(SMT) |
| SST213 | High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection(SMT) |
| SST214 | High Speed N-Channel Lateral DMOS JFET Switch (SMT) |
| SST215 | High Speed N-Channel Lateral DMOS JFET Switch With Zener Diode Protection(SMT) |
| SST108 | Low Noise N-Channel JFET Switch (SMT) |
| SST109 | Low Noise N-Channel JFET Switch (SMT) |
| SST110 | Low Noise N-Channel JFET Switch (SMT) |
| SST308 | Wideband, High Gain, Single, N- Channel JFET(SMT) |
| SST309 | Wideband, High Gain, Single, N- Channel JFET(SMT) |
| SST310 | Wideband, High Gain, Single, N- Channel JFET(SMT) |
| SST401 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET(SMT) |
| SST402 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET(SMT) |
| SST403 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET(SMT) |
| SST404 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET(SMT) |
| SST405 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET(SMT) |
| SST406 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET(SMT) |
| SST4117A | Ultra High Input Impedance N-Channel JFET Amplifier(SMT) |
| SST4118A | Ultra High Input Impedance N-Channel JFET Amplifier(SMT) |
| SST4119A | Ultra High Input Impedance N-Channel JFET Amplifier(SMT) |
| SST4391 | Low Noise, N-Channel JFET Switch(SMT) |
| SST4392 | Low Noise, N-Channel JFET Switch(SMT) |
| SST4393 | Low Noise, N-Channel JFET Switch(SMT) |
| SST440 | Wideband, High Gain, Monolithic Dual, N- Channel JFET(SMT) |
| SST441 | Wideband, High Gain, Monolithic Dual, N- Channel JFET(SMT) |
| SST4416A | Wideband, High Gain, Single, N- Channel JFET(SMT) |
| SST4416 | Wideband, High Gain, Single, N- Channel JFET(SMT) |

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|-----------|--|
| SST500 | Current Regulator Diode(SMT) |
| SST501 | Current Regulator Diode(SMT) |
| SST502 | Current Regulator Diode(SMT) |
| SST503 | Current Regulator Diode(SMT) |
| SST504 | Current Regulator Diode(SMT) |
| SST505 | Current Regulator Diode(SMT) |
| SST506 | Current Regulator Diode(SMT) |
| SST507 | Current Regulator Diode(SMT) |
| SST508 | Current Regulator Diode(SMT) |
| SST509 | Current Regulator Diode(SMT) |
| SST510 | Current Regulator Diode(SMT) |
| SST511 | Current Regulator Diode(SMT) |
| SST5911 | Wideband, High Gain, Monolithic Dual, N- Channel JFET(SMT) |
| SST5912 | Wideband, High Gain, Monolithic Dual, N- Channel JFET(SMT) |
| SST823 | High Speed N-Channel Lateral DMOS JFET Switch(SMT) |
| SST824 | High Speed N-Channel Lateral DMOS JFET Switch(SMT) |
| SSTPAD5 | Monolithic Dual, Low Leakage Pico-Amp Diodes(SMT) |
| SSTPAD100 | Monolithic Dual, Low Leakage Pico-Amp Diodes(SMT) |
| U308 | Wideband, High Gain, Single, N- Channel JFET |
| U309 | Wideband, High Gain, Single, N- Channel JFET |
| U310 | Wideband, High Gain, Single, N- Channel JFET |
| U401 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| U402 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| U403 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| U404 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| U405 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| U406 | Low Noise, Low Drift, Monolithic Dual, N-Channel JFET |
| U421 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| U422 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| U423 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| U424 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| U425 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| U426 | Low Leakage, Low Drift, Monolithic Dual, N-Channel JFET |
| VCR11N | Monolithic Dual, JFET Voltage Controlled Resistor |