ECONOMY MODULES

COOL-WHITE

Very bright, but less bright than our other modules. 3.5" wires between modules.
20 modules per string. 0.72W per module
CAT# LS-200CW $1.40 per module
20 modules for $1.10 per module
100 modules for 85¢ per module

RED/GREEN/BLUE 12 VDC STRIPS

Each LED is capable of red, green or blue, or any combination of colors. When all three colors are activated LED appears white. Should be used with controller, like our CAT# CT-21, which can be used to flash the LEDs in several programmed sequences at controllable speeds, also allowing dimming.
CAT# LS-22 75¢ per 3-led segment
For one roll of 100 segments (300 LEDs), use CAT# LS-22RGB $35.00 per roll

ALPHANUMERIC DISPLAYS

4 DIGIT RED CLOCK DISPLAY, 0.4" DIGITS
MSGQ4911C
4 character 7-segment LED display module. Red Characters. Semi-colon between middle digits. Decimal points after all digits. Gray face. Common Anode. Rate: 2V 20mA. 0.508" H x 1.582" W x 0.276" D. 16-pin DIP. 0.10" pin spacing on 0.40" rows. Fits our part# ICS-22W.
CAT# FDA-5 $1.00 each

3-DIGIT 7-SEGMENT LED DISPLAY, .28" GREEN
LT-2621G. 7-segment, 3 character LED display module. Lights green. Common anode. 2.1V 20mA. 0.891" L x 0.394" W x 0.24" h (22.64mm L x 10mm W x 6.1mm H). 0.28" (7.00mm) digits. 16-pin DIP configuration.
CAT # TDA-26 85¢ each
10 for 80¢ each • 100 for 70¢ each

4-DIGIT 7-SEGMENT SERIAL DISPLAY
Sparkfun# COM-11441
Combines a 4-digit 7-segment display and an ATMega328 microcontroller allowing you to control every segment individually using only a few serial lines. Serial TTL communication, SPI serial communication or I2C serial. Can be programmed for stand-alone operation since the ATMega328 comes pre-loaded with the Arduino bootloader. On-board FTDI header for easier programming. 41mm x 23mm.
CAT# SDA-20 $13.95 each

12-24 VDC 8A DIMMER

Designed for 12-24 VDC LED strip lights like our CAT#s LS-12-CW, NW, WW. Clearly-marked screw-clamp input/output terminals. Rotary adjustment. 3.5" x 2.35" x 2.25" high (including knob). Mounting holes on 1.6" x 3.1" centers.
CAT# DMR-8 $19.95 each

POCKET-SIZED LED TESTER

Handy device for testing LEDs (2-150mA). Simply plug your LED into the correct holes and push the button to test its brightness, illuminant color, etc. The top row is for 2 pin LEDs with currents ranging from 2mA - 30mA. The bottom row is for 4 pin LEDs (super-flux LEDs) with currents ranging from 20mA - 150mA. Powered by a 9V battery (included).
Approximate size: 3.15" x 2.16" x 0.87"
CAT# LT-100 $8.95 each

LED FESTOON LAMPS

6 LED festoon lamps operates on 12 AC/DC 45ma.
120° radiance angle. 10.7mm dia. x 44mm L.
Cool-white - 45 lumen. 6000 CCT(K).
CAT# HFL-12CW $4.50 each
10 for $4.35 each
Warm-white - 40 lumen. 3000 CCT(K).
CAT# HFL-12WW $4.50 each
10 for $4.35 each
Festoon socket for 44mm lamps. Fits CAT#s HFL-12CW and HFL-12WW. Can be used with other 37-44mm festoon based lamps and LEDs.
CAT# FLS-3 75¢ each • 10 for 70¢ each
**FLUSH-MOUNT LED FIXTURE, 120 VAC**

Earthtronics Model LEDX485090
120Vac, 60Hz, 0.062A, 3.5W.
Color temperature: 5000K "Cool-white". 6" dia. LED fixture. Off-white (beige) plastic assembly snaps to a 7.5" dia. metal rough-in frame. Array of 61 LEDs provide a fairly bright light. We don’t have specs, but the intensity is approximately that of a 50-60W incandescent lamp.

**LED WALL WASHER, 120 VAC**

Earthtronics Model TLP250K3X3
120 VAC, 60Hz, 0.029A, 1.6W.
Color temperature: 5000K "Cool-white". Nice-looking white plastic "wall washer-type" fixture. Operates on 120Vac house current. 30 bright white LEDS in a 2" x 2" array with diffuser lens. Inclines approximately 30° from mounting surface. Mounts with 2 screws on 2.35" centers. Removable 3.4" square frame hides screws. Mounts in 2.5" x 2.0" cut-out. 0.70" behind-mounting plane depth.

**FUSE LAMPS**

Popular lamps which are the same size as a 3AG 1/4" x 1 1/4" (AGC) fuse.

<table>
<thead>
<tr>
<th>VOLTS</th>
<th>CAT#</th>
<th>EACH</th>
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<tbody>
<tr>
<td>14</td>
<td>LPF6-3</td>
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<td>8</td>
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<tr>
<td>12</td>
<td>LPF6-12</td>
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</table>

**INCANDESCENT LAMPS**

**3MM GRAIN-OF-WHEAT, T-1**
1.5V, 40Ma  10" insulated wire leads
CAT# LP-3  $1.25 each  •  100 for 98¢ each
1.5V, 75mA  30" insulated wire leads
CAT# LP-41  4 for $1.00  •  100 for 19¢ each
3V, 55mA  10" insulated leads
CAT# LP-4  $1.25 each  •  100 for 98¢ each
5V, 60mA  11" insulated leads
CAT# LP-5  $1.25 each  •  100 for 98¢ each
5V, 115mA  bare wire leads
CAT# LP-715  2 for $1.50  •  100 for 67.5¢ ea.
12V, 45Ma  10" insulated leads
CAT# LP-6  $1.25 each  •  100 for 98¢ each

**3MM, T-1 SPECIAL**

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<tr>
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<td>LP-23</td>
<td>3 for $1.00  •  100 for 20¢ each</td>
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<tr>
<td>50V</td>
<td>LP-100</td>
<td>1000 for 14¢ each</td>
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**T-1 3/4 5MM DIAMETER LAMPS**

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<th>AMPS</th>
<th>CAT#</th>
<th>EACH 100</th>
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<td>LP7382</td>
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<td>LP382</td>
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<td>28</td>
<td>.04</td>
<td>LP327</td>
<td>$1.00  $90.00</td>
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**14V MINI BAYONET BASE LAMP**

#1815 lamp. 14.0 volts, 0.200 amps.
CAT# LP-1815  75¢ each
100 for $67.50

**BAYONET BASE LAMP SOCKETS**

PC / solder leads.
CAT# LS-17  $1.00 each
For use with #44, 47, 1815 etc... standard mini-bayonet base lamps.
CAT# LHL-37  2 for $1.00

**EL BACKLIGHTS**

For backlighting displays, control panels, special effects and model lighting. Flexible, produces practically no heat. Operates on 80-120Vac & will run off of inverter or standard "house" electricity.

**2.8" X 2.2"**
Salmon color in off-state. Glows white when energized. Solderable pins.
CAT# EL-15  2 for $1.50  •  3 for 99¢  •  100 for 20¢ each

**1.2" X 2.6"**
Glow mist green when energized. Ivory off-state. Solderable pin.
CAT# EL-26  3 for 99¢  •  100 for 20¢ each

**12 VDC FLASH ASSEMBLY**

Bright xenon strobe assembly for highway emergency signal. Approximately 80 flashes per minute. 12Vdc operation. Horseshoe flash tube (31.5 x 16 x 6mm) mounted on 65 x 75mm pc board. On/off switch. Easy to connect. See hook-up diagram on-line spec sheet.
CAT# FSH-13  $4.50 each
10 for $4.00 each
MINIATURE 12 VDC RELAY
Potter & Brumfield # T81H5D312-12
12Vdc, 700 Ohm coil. S.P.D.T.
Contacts rated 1A 120VAC/24VDC.
Miniature sealed case, 0.61” x 0.41” x 0.46”
high. PC pins. UL, CSA.
CAT# RLY-516 90¢ each
25 for 80¢ each • 100 for 65¢ each

12 VDC 3A SPDT RELAY
N4100F-2CS3DC12A.
12 Vdc. 3A / 125 Vac. 400 ohm coil.
15.5 x 11 x 11.5mm. Sealed case.
PC leads. cULus.
CAT# RLY-585 60¢ each • 10 for 55¢ each

12 VDC SPDT RELAY, 10A
American Zettler AZ943-1CH-12DE
Miniature PC board relay with
SPDT contacts rated 10A @
277 Vac. 400 Ohm coil. Epoxy sealed
PBT polyester enclosure. 19 x 15 x 15mm.
PC terminals. UL, TUV.
CAT# RLY-652 65¢ each
20 for 60¢ each • 100 for 50¢ each

MICROMINIATURE
12 VDC SPDT RELAY
Fujitsu #FBR21D12
Subminiature PC mount relay, 7.5 x 10 x
10mm high. 12Vdc 534 Ohm coil. SPDT
contacts rated 1A @ 24Vdc, 0.5A @120VAC.
Maximum carry current, 2A. Note: PC leads
are not as stiff as those on other relays.
Not suitable for automatic insertion.
CAT# RLY-616 2 for $1.00 • 100 for $35.00

12 VDC SPDT RELAY
Hasco# SSD 103PU DC12V
Miniature sealed relay.
12Vdc, 320 Ohm coil. S.P.D.T.,
3A contacts. 0.90” x 0.70” x
0.55” high. PC leads. UL.
CAT# RLY-498 75¢ each
2 for $1.00

12 VDC SPST N.O. PC RELAY
MSD Inc Magnecraft 276AXXH-12D
12 Vdc S.P.S.T., normally-open, pc
mount relay. 720 Ohm coil. Contacts rated
10A @ 120/250Vac 30Vdc. 20 x 13 x 10mm
(0.78” x 0.50” x 0.38”). PC leads. UL, CSA.
CAT# RLY-557 65¢ each • 100 for 40¢ each

24 VDC DPDT RELAY
Omron G2R-24
24 Vdc. 1.1K Ohm coil resistance.
DPDT contacts rated 5A 250Vac/
30Vdc. 29 x 13 x 25mm sealed
plastic package. PC leads. UL, CSA.
CAT# RLY-665 $3.50 • 75¢ each
10 for 60¢ each

24 VDC SPST N.O. MINI-RELAY
Zettler # AZ969-24.
24VDC, S.P.S.T., normally-open
contacts. Sensitive sub-miniature relay.
2880 Ohm coil. Contacts rated
5 Amps @ 30Vdc or 250Vac.
17.0 x 6.5 x 12.5mm high. PC pins. UL.
CAT# RLY-535 2 for $1.00 • 100 for 35¢ ea.

SOLID STATE RELAYS

TWO-PHASE (DUAL) 40 AMP SOLID STATE RELAY
Gordos # 84130241
Two-phase (dual) 40 Amp
solid state relay. Dual inputs:
4-15Vdc. Dual outputs: 40 amp / 530 Vac max. Back to back SCRs.
Zero voltage switching. “Hockey-puck” 2.3” x 1.8” x 1” package. Screw terminal output. Input
header 4 pins - 0.1” spacing. UL, CSA, VDE.
CAT# SRLY-16 $12.25 each

CROUZET SOLID STATE RELAY
Crouzet # 9700820, GZ series
Input: 4-15 Vdc.
Output: 480 Vac (20-25A).
Ratings not marked on relay, probably 20-25A based on
P2200GZ25 on side of
relay. 1.81” x 1.50” x 0.55” high. Turret pins for
input and output. Mounting holes on
2.25” centers. UL rated.
CAT# SRLY-17 $3.75 • 2.75 each

REDUCED PRICE

CREWTER TERMINALS
Omron PYF14A-E.
Can be surface mounted or
snap-mounted to alumin-
um DIN rail. UL, CSA, CE,
TUV. Removed from new
equipment in excellent condition.
CAT# SRLY-422U $3.85 each

RELAY SOCKETS

FITS ALL KH & KHU STYLE, 14 PIN RELAYS EXCEPT PC MOUNT STYLE.

SOLDER-LOOP TERMINALS
Note: Terminals and contacts
may be discolored.
CAT# PRLY-S 2 for $1.00
100 for 40¢ each

SCREW TERMINALS
Omrion PYF14A-E.
Can be surface mounted or
snap-mounted to aluminium
DIN rail. UL. CSA, CE,
TUV. Removed from new
equipment in excellent condition.
CAT# RST-422U $3.85 each

8 PIN OCTAL SOCKETS

PC MOUNT SOCKET FOR ROUND BASE
8 PIN RELAYS AND VACUUM TUBES.
CAT# OCT-PC $1.25 each
10 for $1.10 ea. • 100 for 95¢ ea.

Screw terminals for easy
connections and changes.
Can be surface mounted or
used with aluminum
DIN rail. UL listed.
CAT# OTO8-PC $2.90 each
10 for $2.75 each
8 PIN DPDT RELAY SOCKETS

For 8-pin, DPDT relays with rectangular base. Fits our CAT#s RLY-556, RLY-2212 and 2PRLY-120. UL, CSA.

SOLDER TERMINALS
CAT# RST-2SL $1.35 each

SCREW TERMINALS
Bulkhead, surface mount. 2.6” x 0.87” x 1” high.
CAT# RST-2 $6.45 each

ALUMINUM DIN RAIL

An easy way to attach multiple relay sockets. Sockets snap-on and off of rail. DIN rails come in 1 meter (39”) lengths. Can be cut shorter.
CAT# C102P $5.00 each
10 for $47.50

AUTO RELAY SOCKETS

Pre-wired sockets for use in car alarms, door-locks, starter-interrupt, light circuits and other auto applications. Color-coded leads. Will fit our relay, CAT# RLY-351.

5 WIRE SOCKET
with two 18 AWG leads and three 14 AWG leads. Sockets can be interlocked side-to-side.
CAT# SRLY-2 $2.25 each • 10 for $17.50

4 WIRE SOCKET
For S.P.S.T., normally-closed applications in which relay contacts open when coil is energized. 12” leads, AWG 14 to contacts, AWG 20 to coil.
CAT# SRLY-35 $1.85 each
10 for $1.70 each

DUAL RELAY SOCKET
Dual 5 wire sockets designed for door-lock applications.
CAT# SRLY-4 $3.25 each
10 for $27.50

MINIATURE 12 VDC PUSH-TYPE SOLENOID

Ledex™. 0.5” diameter x 1” long tubular solenoid with 3/8” dia. threaded bushing for mounting. 1/16” dia. x 1/2” long plunger. 40 Ohm coil. Operates on 12 Vdc. 1” wire leads.
CAT# SOL-102 $2.75 ea. • 10 for $2.50 ea.

12 VDC 100 MA SOLENOID VALVE

Open when activated. Body: 24mm dia. x 31mm long. 62mm overall length, including inlet and outlet ports and terminals. 0.19” dia. ports. Used, removed from equipment.
CAT# SOL-132 $2.50 each

CLEARANCE ITEMS

These are items with special discounts on large quantities. See the clearance category on our website for lots more deals.

AC POWER CORD W/ INLINE ROCKER SWITCH
70” two-conductor power cord with on-off rocker switch mid-way. Molded, polarized AC plug. Black SPT-2 18 AWG zip cord rated 300V, 105°C, cULus.

CAT# LCAC-456 $2.00 each
100 for $1.70 each • 1000 for $1.25 each

SNAP-ON FERRITE BEAD, 7MM ID
Used to suppress RFI, EMI and unwanted spurious signals. Easy to install. Self-locking plastic snap sleeve holds ferrite form in place. 7mm (0.27”) I.D. ferrite bead. 32.5 x 19.0 x 19.5mm case.

CAT# FB-103 40¢ each • 10 for 35¢ each
540 for 25¢ each • 1080 for 18¢ each

48 VDC 0.38A POWER SUPPLY
Phihong #PSC18U-480 Input: 100-240V, 0.5A, 50-60Hz, 39-51VA. 5” cord with molded 2.5mm coax power plug. Center positive. Includes detachable IEC power cord. cULus, CE. RoHS.

CAT# PS-480 $3.50 each
10 for $3.00 each • 500 for $2.25 each
1000 for $2.00 each

6 VDC, 25 RPM GEAR MOTOR
New gear head motor prepped with an arm that rotates an offset axle in a 1” circle. Can be used to facilitate reciprocating action. Motor is 1.45”D x 3.00”L. No-load specs: 25RPM @ 6Vdc, 150mA. Prepped w/ wire leads and drive arm. Includes a custom mounting bracket and slotted metal link rod.

CAT# DCM-470 $4.75 each
10 for $4.25 each • 100 for $3.75 each
1000 for $2.50 each

0.5” DIA. X 0.15” CERAMIC MAGNET

CAT # MAG-122
10 for 80¢ • 96 for 6¢ each
960 for 5¢ each • 5000 for 3¢ each

3.5MM MONO MINI-PHONE JACK
Mono 3.5mm jack. 6mm plain bushing. PC mount.

CAT # SMJ-8 25¢ each
10 for 20¢ each • 100 for 15¢ each
1000 for 10¢ each • 5000 for 8¢ each

Ledex™. 0.5” diameter x 1” long tubular solenoid with 3/8” dia. threaded bushing for mounting. 1/16” dia. x 1/2” long plunger. 40 Ohm coil. Operates on 12 Vdc. 1” wire leads.
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MINIATURE 12 VDC PUSH-TYPE SOLENOID

Open when activated. Body: 24mm dia. x 31mm long. 62mm overall length, including inlet and outlet ports and terminals. 0.19” dia. ports. Used, removed from equipment.
CAT# SOL-132 $2.50 each

AC POWER CORD W/ INLINE ROCKER SWITCH
70” two-conductor power cord with on-off rocker switch mid-way. Molded, polarized AC plug. Black SPT-2 18 AWG zip cord rated 300V, 105°C, cULus.

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SNAP-ON FERRITE BEAD, 7MM ID
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CAT # MAG-122
10 for 80¢ • 96 for 6¢ each
960 for 5¢ each • 5000 for 3¢ each

3.5MM MONO MINI-PHONE JACK
Mono 3.5mm jack. 6mm plain bushing. PC mount.

CAT # SMJ-8 25¢ each
10 for 20¢ each • 100 for 15¢ each
1000 for 10¢ each • 5000 for 8¢ each

SHOP ON-LINE WWW.ALLELECTRONICS.COM
### INTEGRATED CIRCUITS

#### VOLTAGE REGULATORS

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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>7805T</td>
<td>+5 VOLT 1 AMP (LM340T-5)</td>
<td>TO-220</td>
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<td>7806T</td>
<td>+6 VOLT 1 AMP (LM340T-6)</td>
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<td>CJ78M05</td>
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<td>LM4904VOS</td>
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<tr>
<td>7905T</td>
<td>-5 VOLT 1 AMP (LM320T-5)</td>
<td>TO-220</td>
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<tr>
<td>7908T</td>
<td>-8 VOLT 1 AMP</td>
<td>TO-220</td>
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<tr>
<td>7912T</td>
<td>-12 VOLT 1 AMP (LM320T-12)</td>
<td>TO-220</td>
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#### ADJUSTABLE REGULATORS

| LM317T | ADJ. POSITIVE (1.2-37V) | TO-220 | .70 |
| LM317LZ | ADJ. POSITIVE (1.2-37V) | TO-92 | .65 |
| LM337T | ADJ. NEGATIVE (1.2-37V) | TO-220 | 1.50 |
| LM337T | ADJ. POSITIVE 5 AMP | TO-220 | 2.75 |
| LM339T | ADJ. POSITIVE 3 AMP | TO-220 | 3.50 |
| LM2941S | 5-20V, Surface-mount | TO-26-3-1.25 |
| TPS73601 | 1.2-5.5V, Surface-mount | SOT223 | 1.00 |

### LOGIC

#### POSITIVE REGULARS

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<td>TRI-STATE OCTAL LINE DRIVER</td>
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<tr>
<td>74HC574</td>
<td>OCT D Flip Flop</td>
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<td>.45</td>
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<td>4013</td>
<td>FLIP FLOP</td>
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<td>.45</td>
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<tr>
<td>4017</td>
<td>DECADE COUNTER / DIVIDER</td>
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<td>.60</td>
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<td>4027</td>
<td>FLIP FLOP</td>
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<td>.70</td>
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<td>4040</td>
<td>12 STAGE BI. R.I. COUNTER</td>
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<td>MC14049</td>
<td>HEX INVERTING BUFFER</td>
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<td>8 INPUT NAND GATE</td>
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<td>4071</td>
<td>QUAD OR GATE</td>
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<td>QUAD NAND SCHMITT TRIG.</td>
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<td>.70</td>
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<td>4511</td>
<td>LATCH/DECODER/DRIVER</td>
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#### LOGIC - MOUNT SURFACE

<table>
<thead>
<tr>
<th>CAT#</th>
<th>DESCRIPTION</th>
<th>pins ea.</th>
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<tbody>
<tr>
<td>74AC574PWR</td>
<td>TRI STATE OCTAL FLIP FLOP</td>
<td>20 .50</td>
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<tr>
<td>74HC08DR</td>
<td>QUAD 2 IN POS-AND GATES</td>
<td>14 .40</td>
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### LINEAR SERIES

<table>
<thead>
<tr>
<th>CAT#</th>
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<tbody>
<tr>
<td>TL082</td>
<td>J-FET IN DUAL OP AMP</td>
<td>8</td>
<td>.70</td>
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<tr>
<td>ADM202EAN</td>
<td>LINE DRIVER RECEIVER</td>
<td>16</td>
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<tr>
<td>LM311</td>
<td>COMPARATOR</td>
<td>8</td>
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<tr>
<td>LM324</td>
<td>QUAD OP AMP</td>
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<tr>
<td>LM339</td>
<td>QUAD COMP</td>
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<td>LF353</td>
<td>DUAL BI-FET OP AMP</td>
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<td>LM358</td>
<td>DUAL OP AMP</td>
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<td>LM368N</td>
<td>AUDIO AMP. 25 W</td>
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<td>LM393</td>
<td>LOW POWER DUAL COMP</td>
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<td>LM555</td>
<td>TIMER</td>
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<td>ICM7555</td>
<td>CMOS TIMER “555”</td>
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<td>LM567</td>
<td>TONE DECODER</td>
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<tr>
<td>LM741</td>
<td>OP AMP (MC1741)</td>
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<td>MC1458</td>
<td>DUAL OP AMP (MC4558)</td>
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<td>LM2900</td>
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<td>ULN2003</td>
<td>DARLINGTON ARRAY</td>
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<td>75452</td>
<td>DUAL PERIP. NAND DR.</td>
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<td>75453</td>
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### LINEAR - SURFACE MOUNT

<table>
<thead>
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<td>TL084C</td>
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<td>LMV324MX</td>
<td>OP AMP, SMD</td>
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<td>QUAD COMP</td>
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<td>LM361M</td>
<td>HI-SPEED DIFF. COMP.</td>
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<td>MC33079D</td>
<td>LOW NOISE DUAL OP-AMP</td>
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### SMPS CONTROLLER

- **New Item**

#### IC SOCKETS

<table>
<thead>
<tr>
<th>PINS</th>
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<th>50-99</th>
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### SOLDERTAIL

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<tr>
<td>74LS244</td>
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<td>74HC574</td>
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<td>FLIP FLOP</td>
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<td>4017</td>
<td>DECADE COUNTER / DIVIDER</td>
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<td>12 STAGE BI. R.I. COUNTER</td>
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<td>MC14049</td>
<td>HEX INVERTING BUFFER</td>
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<td>MC14050BCP</td>
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<td>DIFFERENTIAL ANALOG</td>
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<td>4511</td>
<td>LATCH/DECODER/DRIVER</td>
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<td>.80</td>
</tr>
</tbody>
</table>

### PHOTO DIODE

- **BPW34** Tiny general purpose PIN photodiode. Sensitive to a wide range of light wavelengths (430-1100nm). The rated open circuit voltage is 350mV (900nm, 1mW/cm² light source), short circuit current is 47µA. Ideal for a variety of light sensing applications

### PHOTO-TRANSISTOR

- **Ledtech # LT9593-91-0125.**
- **Water-clear T 1 3/4 w/ flat face.**

**MINI-DIPS** Fits 8-pin DIP socket.

<table>
<thead>
<tr>
<th>Amps</th>
<th>Volts</th>
<th>CAT#</th>
<th>Each</th>
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<tr>
<td>1/2</td>
<td>400</td>
<td>FWB-48</td>
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<tr>
<td>1</td>
<td>100</td>
<td>FWB-11</td>
<td>.35</td>
</tr>
</tbody>
</table>

**1/2 AMP BRIDGES**

- **TO-5 case 3/8” diameter.**
  - **1.5A** 400V
  - **CAT# FWB-15** 50¢ each