



Comchip Technology

Product strengths in different market segments and Diodes Application note

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Product Strengths – Flat Chip Switching/Schottky/Zener Diode

FLAT CHIP DIODES

★ *Thinnest*

★ *No Lead-Frame*



SOD-523F

★ *Smallest*



SOD-323F

★ *Lightest*



SOD-123F

- **RoHS Compliant Diodes:**
Flat Chip Package complies with ROHS w/o tin-whisker concerns
- **Works with RoHS and Lead-based manufacturing process:**
Copper/Nickel/Gold termination offers excellent solderability
- **High Temperature Molding Material:**
Three times oven re-flow at 260°C for 10-12 seconds
- **No Lead-Frame Diodes:**
New manufacturing process eliminates Lead-Frame for lower cost
- **Size Reduction Technology:**



| | |
|---|---|
|  | SOD-123F → SOD-323F → SOD-523F → SOD-723F |
| No Lead-Frame | |
|  | SOD-123 → SOD-323 → SOD-523 → ? |
| Lead-Frame | |
|  | MiniMELF → MicroMELF → ? |
| MELF | |

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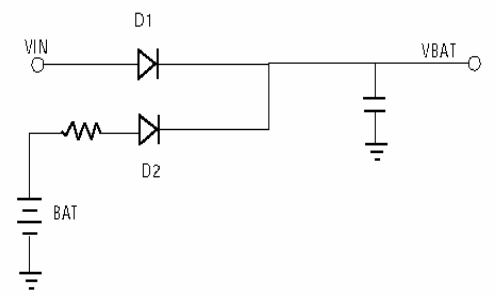
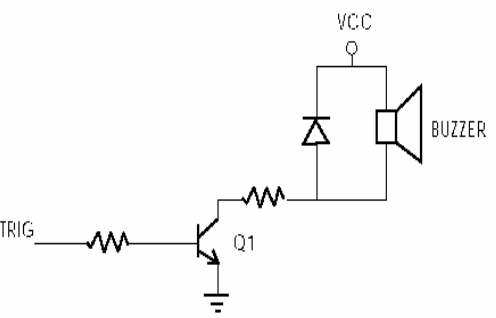
SMD DIODES SPECIALIST



Target segments:
 Portable Device,
 Handheld Device, e.g.
 MP3, Palm, Hearing
 Aid, Hand held
 scanner, or customer
 looking for smaller
 size package as a
 replacement.

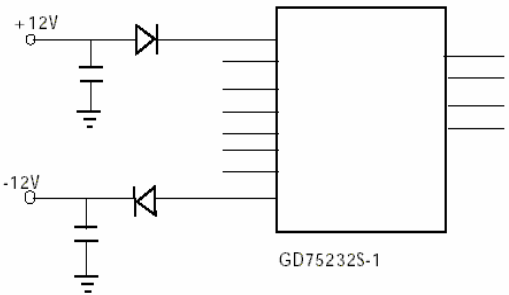
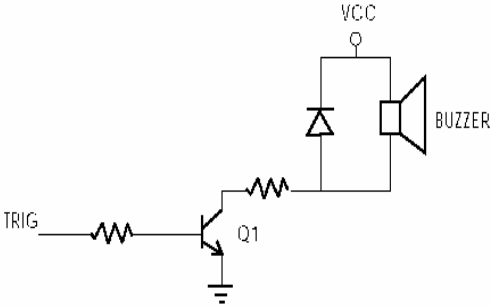
Application Notes – Flat Chip

Switching Diode

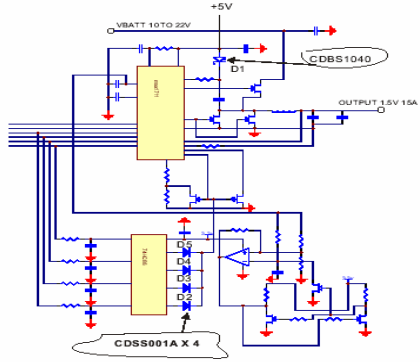
| Application for Flat Chip Switching Diode | Products | Diode Selection Guide | Comchip P/N |
|--|--|-----------------------------------|--|
| <p>Battery Circuit for SRAM</p>  | <p>PDA, PC, Modem, TV, Telephone, Walkie-Talkie, Notebook</p> | <p>1. Low IR</p> | <p>CDSU001A CDSU4148 CDSF001A CDSF4148</p> |
| <p>General Buzzer Application Circuit</p>  | <p>Cellular Phone, PDA, Personal Portable Devices, Servo Motor, Pager Translator, Remote Alarm</p> | <p>1. High VR 2. High IFM</p> | <p>CDSU4148 CDSF4148 CDSN4148 CDSS4148</p> |

Application Notes – Flat Chip

Switching Diodes

| Application | Products | Diode Selection Guide | Comchip P/N |
|--|--|---------------------------------|---|
| <p>Power Protection for Modem</p>  | <p>Networking equipment, RE-232, USB, Mouse, PDA, Wireless Modem, Bluetooth Module</p> | <p>1. Low VF 2. High VR</p> | <p>CDSN4148 CDSF4148 CDSU4148</p> |
| <p>LCD BIAS SUPPLY</p>  | <p>Cellular Phone, PDA, Digital Camera, Notebook GPS</p> | <p>1. High VR</p> | <p>CDSU4148 CDSS4148</p> |

Application Notes – Switching Diode










| Application | Products | Diode Selection Guide | Comchip P/N |
|---|-----------------|-----------------------|---|
| <p>Digitally Adjusted Step-Down Controllers for Notebook CPUs</p>  | <p>Notebook</p> | <p>1. Low IR</p> | <p>CDSU001A CDSU4148 CDSF4148</p> |

Product Strengths – Low V_F



Super Low V_F Schottky

Comchip Technology is proud to launch the Super Low V_F Schottky diode (CDBA120SL, CDBA140SL). These are available in SMA package at 1A, 20V or 40V. With a super low V_F of 0.31V @1A, these diodes are designed to save more energy and extend battery life for today's portable electronic devices.

♦ **Low V_F Schottky**

| Part Number | I_o (A) | V_R (V) | V_F (V) | Case | |
|-----------------------------|-----------|-----------|--------------------|----------|--|
| CDBM120L/ 140L | 1.0 | 20 / 40 | 0.38 ~ 0.40 | MiniSMA |  |
| CDBL120L/ 140L | 1.0 | 20 / 40 | 0.38 ~ 0.40 | DO-213AB |  |
| CDBA120L/ 140L | 1.0 | 20 / 40 | 0.40 ~ 0.38 | DO-214AC |  |
| CDBA120LL/ 140LL | 1.0 | 20 / 40 | 0.37 ~ 0.34 | DO-214AC |  |
| New CDBA120SL/ 140SL | 1.0 | 20 / 40 | 0.31 ~ 0.31 | DO-214AC |  |
| CDBA220L/ 240L | 2.0 | 20 / 40 | 0.38 ~ 0.40 | DO-214AC |  |
| CDBA220LL/ 240LL | 2.0 | 20 / 40 | 0.34 ~ 0.36 | DO-214AC |  |
| CDBA320L/ 340L | 3.0 | 20 / 40 | 0.42 ~ 0.45 | DO-214AC |  |
| CDBA320LL/ 340LL | 3.0 | 20 / 40 | 0.38 ~ 0.40 | DO-214AC |  |

♦ **Small Signal Low V_F Schottky**

| Part Number | I_o (mA) | V_R (V) | V_F (V) | Case | |
|-------------|------------|-----------|-----------|----------|---|
| CDBU00340 | 30 | 40 | 0.37 | SOD-523F | |
| CDBU0130 | 100 | 30 | 0.44 | SOD-523F |  |
| CDBU0230 | 200 | 30 | 0.50 | SOD-523F | |
| CDBU0240 | 200 | 40 | 0.55 | SOD-523F | |
| CDBF00340 | 30 | 40 | 0.37 | SOD-323F | |
| CDBF0130 | 100 | 30 | 0.44 | SOD-323F |  |
| CDBF0230 | 200 | 30 | 0.50 | SOD-323F | |
| CDBF0240 | 200 | 40 | 0.55 | SOD-323F | |

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SMD DIODES SPECIALIST

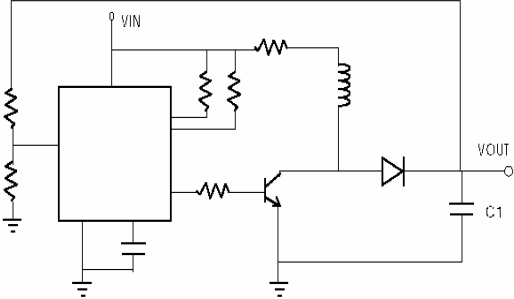
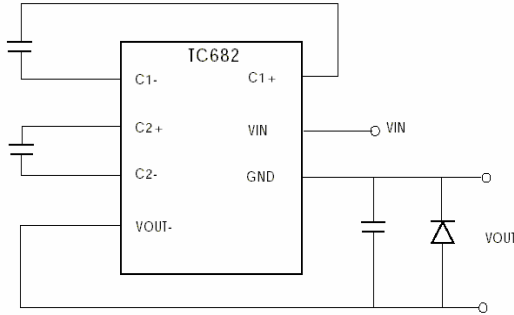
COMCHIP
SMD DIODE SPECIALIST

Target Market:
Portable devices to save energy and extend battery life.

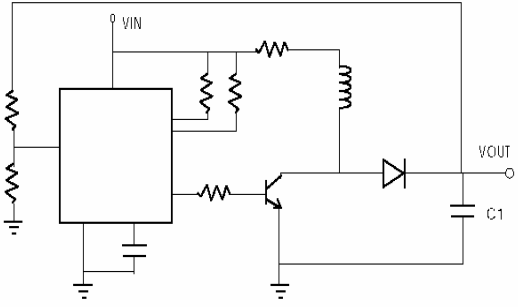
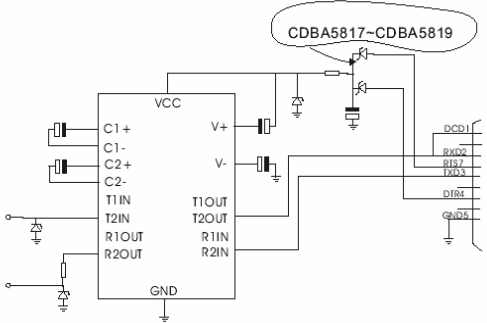
Environmental friendly Green product.

Comchip has the Lowest $V_F=0.31V$ @1A in the industry.

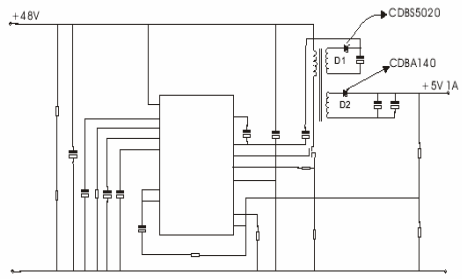
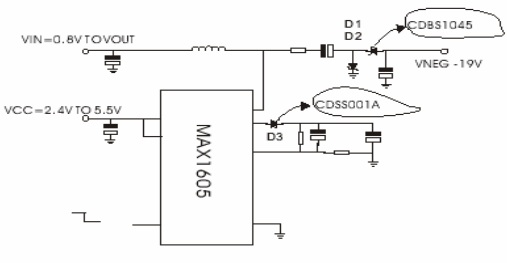
Application Notes – Schottky Series

| Application | Products | Diode Selection Guide | Comchip P/N |
|---|--|---|--|
| <p>Power Supply Circuit for DC to DC</p>  | <p>Telecom, Cellular Phone, PDA, Pager</p> | <ol style="list-style-type: none"> 1. Low VF 2. High VR 2. Short TRR | <p>CDB Schottky diodes</p> |
| <p>Power Protection for LCD Module</p>  | <p>Cellular Phone, PDA, GPS System</p> | <ol style="list-style-type: none"> 1. Low IR 2. High VR | <p>CDBA120-G CDBB240-G CDBC540-G</p> |

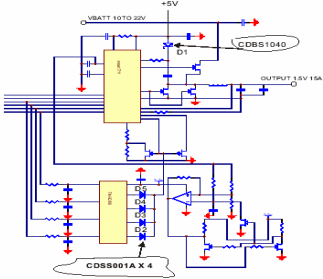
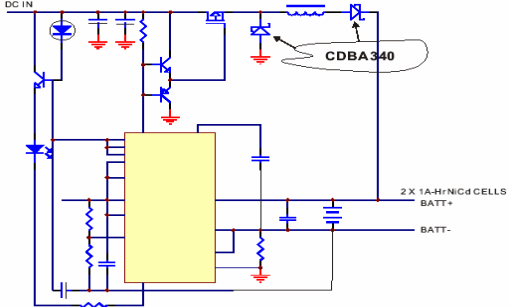
Application Note – Schottky Diodes

| Application | Products | Diode Selection Guide | Comchip P/N |
|---|---|--|--|
| <p>USB and Keyboard Power Source</p>  | <p>PC Peripheral, USB, Keyboard</p> | <ol style="list-style-type: none"> 1. Low IR 2. Low VF 2. Short TRR | <p>CDBA120-G</p> |
| <p>PC RS-232 with the Cell Phone Adapter</p>  | <p>Cellular Phone, PDA, PLC, Digital Camera</p> | <ol style="list-style-type: none"> 1. Low VF | <p>CDBA120-G CDBA130-G CDBA140-G</p> |

Application Notes – Schottky Diode

| Application | Products | Diode Selection Guide | Comchip P/N |
|--|---|-----------------------|--|
| <p style="text-align: center;">High-Voltage Power-Supply Controller</p>  | <p>Modem, PLC, Telephone</p> | <p>1. Low VF</p> | <p>CDBA120-G CDBA130-G CDBA140-G CDBB240-G CDBC340-G CDBC540-G</p> |
| <p style="text-align: center;">LCD BIAS SUPPLY</p>  <p style="text-align: center;">LCD BIAS SUPPLY</p> | <p>Cellular Phone, PDA, Digital Camera, Notebook, GPS</p> | <p>1. High VR</p> | <p>CDBS0140</p> |

Application Notes – Schottky Diode

| Application | Products | Diode Selection Guide | Comchip P/N |
|--|----------------------------------|---|------------------------------|
| <p>Digitally Adjusted Step-Down Controllers for Notebook CPUs</p>  | <p>Notebook</p> | <p>1. Low IR</p> | <p>CDBS0140 CDBU0140</p> |
| <p>NiCd/NiMH Battery Fast-Charge Controllers</p>  | <p>Notebook, PDA, Cell Phone</p> | <p>1. High I_o 2. Low V_F</p> | <p>CDBA340-G</p> |

Product Strengths – High Efficiency Rectifier

RECTIFIERS

HIGH EFFICIENCY

Comchip is proud to launch high quality SMD rectifiers. These high speed rectifiers provide small, light, efficient and cost-effective solutions.

- ◆ General Purpose Rectifier**
 - ▶ $V_R(V) = 20 \sim 1000$, $I_O(A) = 0.5 \sim 50$
 - ▶ Case: DO-41, DO-201AD, DO-214AC, DO-214AA, DO-213AB, DO-213AA, Mini SMA, TO-220AC
- ◆ Fast Recovery Rectifier**
 - ▶ $V_R(V) = 50 \sim 1000$, $I_O(A) = 1.0 \sim 30$, $T_{rr}(nS) = 100 \sim 500$
 - ▶ Case: DO-41, DO-214AC, DO-214AA, DO-214AB, DO-213AB, TO-213AA, ITO-220AC, TO-220AB
- ◆ Ultra Fast Recovery Rectifier**
 - ▶ $V_R(V) = 50 \sim 1000$, $I_O(A) = 1.0 \sim 30$, $T_{rr}(nS) = 50 \sim 75$
 - ▶ Case: DO-214AC, DO-214AA, DO-214AB, DO-213AB, Mini SMA, TO-220AC, TO-220AB, ITO-220AC
- ◆ Super Fast Recovery Rectifier**
 - ▶ $V_R(V) = 50 \sim 600$, $I_O(A) = 1.0 \sim 30$, $T_{rr}(nS) = 35 \sim 50$
 - ▶ Case: DO-214AC, DO-214AA, DO-214AB, DO-213AB, Mini SMA, TO-220AC, TO-220AB, ITO-220AC, ITO-220AB
- ◆ Efficient Fast Recovery Rectifier**
 - ▶ $V_R(V) = 50 \sim 600$, $I_O(A) = 1.0 \sim 10$, $T_{rr}(nS) = 25 \sim 50$
 - ▶ Case: DO-214AC, DO-214AA, DO-214AB, DO-213AB, Mini SMA, DO-41, TO-220AB

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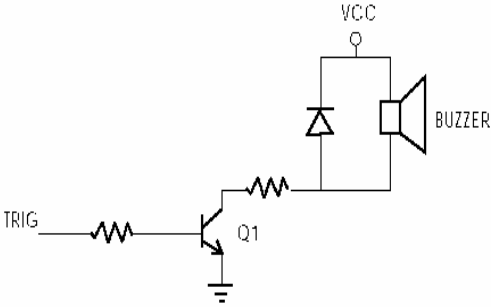
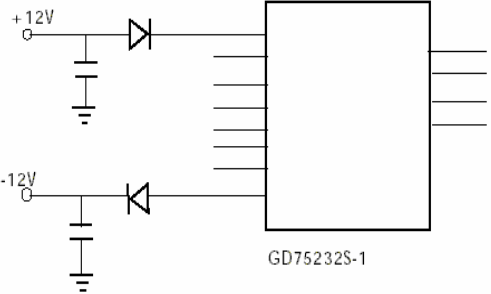
SMD DIODES SPECIALIST

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Target segment:
Industrial sensors,
industrial control
board, Power supply,
GPS system, Cellular
phone.

In most of the
application, S1G or
Rectifier 4000 series
are popular
specification.

Application Note -- Rectifier

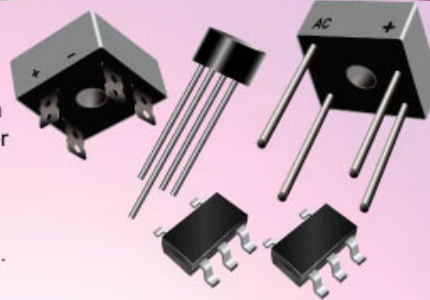
| Application | Products | Diode Selection Guide | Comchip P/N |
|--|--|-----------------------------------|---|
| <p>General Buzzer Application Circuit</p>  | <p>Cellular Phone, PDA, Personal Portable Devices, Servo Motor, Pager Translator, Remote Alarm</p> | <p>1. High VR 2. High IFM</p> | <p>CGRA4001-G CGRA4004-G CGRA4007-G S1A-G S1G-G S1M-G</p> |
| <p>Power Protection for LCD Module</p>  | <p>Cellular Phone, PDA, GPS System</p> | <p>1. Low IR 2. High VR</p> | <p>CGRA4004-G</p> |

Product Strengths – Bridge Rectifier

BRIDGE RECTIFIER

Comchip Technology is proud to launch high quality and cost-effective bridge rectifier, which full wave rectification from AC power source for electronic equipment. Our bridge rectifiers can meet your electronic device's power and case style requirements.

Please call 510-657-8671 for more information.



◆ Bridge Rectifiers

| Part Number | V_R (V) | I_o (A) | Case |
|------------------------|------------|-----------|----------|
| AM100-G ~ AM1010-G | 50 ~ 1000 | 1.0 | AM |
| AM150-G ~ AM1510-G | 50 ~ 1000 | 1.5 | AM |
| B05S-G ~ B10S-G | 50 ~ 1000 | 0.5 | TO-269AA |
| B05SGS-G ~ B10SGS-G | 50 ~ 1000 | 0.5 | TO-269AA |
| DF005GS-G ~ DF10S-G | 50 ~ 1000 | 1.0 | DF-S |
| DF005M-G ~ DF10M-G | 50 ~ 1000 | 1.0 | DF-M |
| DF15005S-G ~ DF1510S-G | 50 ~ 1000 | 1.5 | DF-S |
| HD01-G ~ HD10-G | 100 ~ 1000 | 0.8 | MINI-DIP |

◆ High Power Bridge Rectifiers

| Part Number | V_R (V) | I_o (A) | Case |
|-----------------|-----------|-----------|--------------------------|
| KBPC Series | 50 ~ 1000 | 10 ~ 50 | Plastic / Terminals |
| KBPC-S Series | 50 ~ 1000 | 10 ~ 50 | Plastic / Single In-Line |
| KBPC-W Series | 50 ~ 1000 | 10 ~ 50 | Plastic / Wire Leads |
| MB Series | 50 ~ 1000 | 10 ~ 50 | Metal / Terminals |
| MB-W Series | 50 ~ 1000 | 10 ~ 50 | Metal / Wire Lead |
| MP1000 ~ MP1010 | 50 ~ 1000 | 10 | MP-10 |

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Target Market Segment:

Power Supply, Industrial Application, High Power application. Go up to $I_o=50A$

Product Strengths – ESD/TVS Diode

TVS/ESD Suppressor

Comchip TVS/ESD suppressors are designed for use in a variety of digital circuit protection applications including computer peripheral ports (IEEE 1284, USB, Firewire, SCSI, gaming, video, keyboard, audio, DC power), industrial control systems, audio and networking equipments. With characteristics of low capacitance, ultra fast response time and stable breakdown, TVS/ESD suppressors have significant application advantages over metal oxide varistors. These components are RoHS compliant and offer a 16KV ESD suppression at 8/20us transient rating (IEC 61000-4-2).

◆ **ESD Suppressor**

| Part Number | Channels | V _{ESD} (V) | I _{pp} (A) | Case |
|---------------------|----------|----------------------|---------------------|----------|
| CPDU5V0 - 36V | 1 | 5 - 36 | 5.1 - 15 | SOD-523F |
| CPD1ESV0-G - 36V-G | 1 | 5 - 36 | 5.1 - 15 | 0503 |
| CKLS145V0-G - 36V-G | 1 | 5 - 36 | 5.1 - 15 | SOT-143 |
| CPEV5V0-G - 36V-G | 1 | 5 - 36 | 1 - 5 | SOD-323 |

◆ **ESD Suppressor Array**

| Part Number | Channels | V _{ESD} (V) | I _o (mA) | Case |
|-------------|----------|----------------------|---------------------|---------|
| CDAAQ20-G | 18 | 10 | 50 | QSOP-20 |
| CDA2Q20-G | 17 | 10 | 50 | QSOP-20 |
| CDA3S06-G | 4 | 10 | 50 | SOT23-6 |
| CDA4S14-G | 2 | 13 | 50 | SOT-143 |
| CDA8N08-G | 6 | 13 | 50 | NSOIC-8 |
| CDA7Q24-G | 18 | 13 | 50 | QSOP-24 |
| CDA8S03-G | 1 | 10 | 50 | SOT-23 |
| CDA9N08-G | 4 | 10 | 50 | NSOIC-8 |

◆ **ESD Suppressor Array**

| Part Number | Channels | V _{ESD} (V) | I _{pp} (A) | Case |
|---------------------|----------|----------------------|---------------------|----------|
| CEAS035V0-G - 36V-G | 2 | 5 - 36 | 5.1 - 15 | SOT23-3 |
| CEBS035V0-G - 36V-G | 4 | 5 - 36 | 5.1 - 15 | SOT23-6 |
| CECS035V0-G - 36V-G | 5 | 5 - 36 | 5.1 - 15 | SOT23-6 |
| CEDS035V0-G - 36V-G | 4 | 5 - 36 | 5.1 - 15 | SOT23-5 |
| CEGS035V0-G - 36V-G | 1 | 5 - 36 | 5.1 - 15 | SOT-143 |
| CEEN085V0-G - 24V-G | 4 | 5 - 24 | 5.1 - 15 | NSOIC-8 |
| CEEN145V0-G - 24V-G | 7 | 5 - 24 | 5.1 - 15 | NSOIC-14 |
| CEEN165V0-G - 24V-G | 8 | 5 - 24 | 5.1 - 15 | NSOIC-16 |
| CEEQ165V0-G - 24V-G | 8 | 5 - 24 | 5.1 - 15 | QSOP-16 |
| CEEW185V0-G - 24V-G | 8 | 5 - 24 | 5.1 - 15 | WSOIC-16 |
| CEEW205V0-G - 24V-G | 10 | 5 - 24 | 5.1 - 15 | WSOIC-20 |
| CEFN085V0-G - 24V-G | 7 | 5 - 24 | 5.1 - 15 | NSOIC-8 |
| CEFN145V0-G - 24V-G | 13 | 5 - 24 | 5.1 - 15 | NSOIC-14 |
| CEFN165V0-G - 24V-G | 15 | 5 - 24 | 5.1 - 15 | NSOIC-16 |
| CEFQ165V0-G - 24V-G | 15 | 5 - 24 | 5.1 - 15 | QSOP-16 |
| CEFW165V0-G - 24V-G | 15 | 5 - 24 | 5.1 - 15 | WSOIC-16 |
| CEFW205V0-G - 24V-G | 19 | 5 - 24 | 5.1 - 15 | WSOIC-20 |

◆ **TVS Array**

| Part Number | P _{ppm} (Watts) | V _R (V) | Case |
|---------------------|--------------------------|--------------------|---------|
| CTAN145V0-G - 36V-G | 300 | 5 - 36 | SOIC-14 |
| CTBN145V0-G - 36V-G | 300 | 5 - 36 | SOIC-8 |
| CTCN145V0-G - 36V-G | 300 | 5 - 36 | SOIC-8 |
| CTDN145V0-G - 36V-G | 300 | 5 - 36 | SOT-623 |
| CTEN145V0-G - 36V-G | 300 | 5 - 36 | SOT-23 |

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Target Market:

High speed digital circuitry applications including cellular handsets and accessories, portable products, audio and visual equipment, protection for I/O ports, networking systems, high-speed data lines and computer components.

TVS Diodes Application Guide

| TELECOM | | | |
|--|------------------------------|-----------------|----------------|
| Application | Applicable Comchip PN | | |
| CATV Set-Top Box | P6KE200 | | |
| Cable Modem | SMBJ14CA | SMCJ5.0A | |
| Cellular Phone | SMAJ20C | | |
| Commercial Telecom Multiplexer | SMBJ170CA | | |
| DSS (Direct Satellite System) | P6KE91A | SMBJ150A | |
| DSS Receiver | 1.5KE18CA | SMBJ170A | |
| Digital ISDN Telecom Network | SMCJ5.0A | | |
| GSM Phone [1] | SMAJ5.0A | SMBJ9.0A | SMBJ16A |
| Military Radio Controller | P6KE18CA | | |
| Personal Handy-Phone System (PHS) [3] | P6KE91 | SMBJ78 | |
| Router | P6KE91 | SMBJ75A | |
| Satellite Antenna | SMCJ20A | | |
| Satellite Dish System | SMCJ20A | SMCJ24A | |
| Satellite Receiver | 1.5KE27A | SMCJ24A | |
| Telecom Switching System | 1.5KE62A | SMCJ58A | |

TVS Diodes Application Guide

| CONSUMER | | | |
|---|------------------------------|------------------|----------------|
| Application | Applicable Comchip PN | | |
| Air Conditioner | 1.5KE220A | | |
| Audio Op-Amp Output Protection Circuit | LCE26A | LCE28A | |
| Color TV (21") | P4KE120 | | |
| DVD (Digital Video Disk) Player | 1.5KE180A | P6KE120 | |
| Emergency Lighting | P6KE440CA | | |
| Flight Simulator | SMCJ36CA | SMCJ170CA | |
| HDTV | 1.5KE200A | | |
| Home Security System | SA5.0A | SA11CA | SMBJ12A |
| MP3 Player | SMBJ22A | | |
| Security Camera System | LCE7.0 | SAC7.0 | |
| Smoke Detector | P6KE20CA | SMBJ40CA | SMBJ43A |
| TGV ABS System | 1.5KE160CA | | |
| Vending Machine | SMAJ15 | | |
| Video Camera | P6KE180A | | |

TVS Diodes Application Guide

| COMPUTER | | |
|---------------------------------------|------------------------------|------------------|
| Application | Applicable Comchip PN | |
| Desktop PC | P4KE6.8A | SA5.0A |
| Disk Drive | SMBJ5.0A | |
| HDD (Hard Disk Drive) | P6KE22 | SMBJ5.0A |
| Laser Printer | P4KE200 | P4KE250 |
| Local Area Network (LAN) Board | SMBJ15C | |
| Modem Card | P6KE120CA | SMBJ110CA |
| Motherboard | P6KE400A | |
| Printer | SMAJ5.0 | |
| UPS | 1.5KE300A | 1.5KE6.8A |

TVS Diodes Application Guide

| INDUSTRIAL | | | | |
|---|-----------------------|----------|---------|----------|
| Application | Applicable Comchip PN | | | |
| Aircraft Engine Controller | SMCJ13 | | | |
| Aircraft Onboard Electronics System | SMBJ33CA | | | |
| Aircraft Sensor TVS Protection Circuitry | SMCJ13A | SMCJ24A | SMCJ28A | SMCJ33CA |
| Airplane "Black Box" Data Recorder System | SMCJ6.5CA | SMCJ40CA | | |
| Airplane Lightning Protection Equipment | LCE7.5A | SAC5.0 | | |
| Card Reader | SMBJ5.0 | SMCJ15CA | | |
| Control Equipment | SMAJ15C | | | |
| Elevator | 1.5KE440A | | | |
| Fire Alarm System | SA14 | | | |
| Gas Alarm | SMAJ5.0 | SMAJ170 | | |
| Image Inspection System | SMBJ5.0A | SMBJ15A | | |
| Nuclear Test Box | SA45CA | SA51CA | | |
| Power MOSFET protection (P6KE36A) | P6KE36A | | | |
| Submarine | 1.5KE350A | | | |
| Voltage Regulator | 1.5KE20A | 5KP20A | | |

TVS Diodes Application Guide

| AUTOMOTIVE | | | |
|--------------------------------------|------------------------------|----------------|----------------|
| Application | Applicable Comchip PN | | |
| Adjustable Pedal Module (APM) | SMBJ26A | | |
| Airbag | 5KP24A | | |
| Airbag Crash Sensor Module | SMBJ24CA | | |
| Alarm System | P6KE27A | SMBJ24A | |
| Electronic Ignition Module | P4KE300A | | |
| Engine Control | 1.5KE13A | 5KP24 | SMCJ13A |
| Load Dump Circuit [8] | 5KP43A | P6KE68A | |
| Mass Air Flow Regulator | SMAJ24C | | |
| Oxygen Sensor | SMAJ15A | | |
| Power Window Control Module | P6KE51A | SMBJ45A | |
| Speed Control Module | 1.5KA24A | SMCJ22A | |
| Steering Controller | 5KP28A | | |
| Truck Transmission Controller | SMAJ30C | | |

TVS Diodes Application Guide

| POWER SUPPLY | | | | | |
|-------------------------------|-----------------------|---------|--------|---------|---------|
| Application | Applicable Comchip PN | | | | |
| AC/DC Converter | SMBJ5.0A | | | | |
| 3.3V SMPS Output | SMBJ20A | | | | |
| Bank ATM Machine Power Supply | 1.5KE51A | SMCJ45A | | | |
| High Power SMPS | P6KE160 | SMBJ130 | | | |
| Lightning Suppression Board | 5KP51 | 5KP51A | 5KP78 | 5KP78 A | |
| Switching power supply | P6KE200A | | | | |
| Transient Suppression Circuit | 1.5KE220CA | 5KP5.0A | 5KP12A | 5KP15 A | 5KP2 4A |

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| LIGHTING BALLAST | |
|--|-----------------------|
| Application | Applicable Comchip PN |
| Active Power Factor Correction Ballast | P6KE220A |
| Control Circuitry | P4KE440CA |
| Electronic Ballast (EB) | P6KE400 |
| Electronic Dimmer Ballast | P4KE440A |
| Electronic Lighting Ballast | 1.5KE300A |
| Fluorescent Ballast | P6KE300 |