

## Design Kits - Chip Diodes

The markets of portable communications, computing and video equipment are challenging the semiconductor industry to develop increasingly smaller electronic components. Today, designers of compact electronic systems are faced with board space constraints, thus driving the requirement for alternative packaging technologies. Functional integration and miniaturization is the key to success!

To aid this miniaturization campaign, a new generation of Chip Diodes from Bourns has emerged that offers the capability to provide a silicon diode with minimal packaging overhead. The small signal diodes are lead-free with Cu/Ni/Au plated terminations and are compatible with lead-free manufacturing processes, conforming many industry and government regulations on lead-free components.

Bourns offers MITE Schottky Barrier Diodes for rectification applications in compact chip package DO-216AA size format. The CD216A-B1 Schottky Rectifier Diode Series offer a forward current of 1 A with a choice of repetitive peak reverse voltage of 20 V up to 40 V.

Bourns Chip Diodes conform to JEDEC standards, easy to handle on standard pick and place equipment and their flat configuration makes roll away much more difficult.

### Advantages

The Chip Diode product range provides distinct advantages over some of our competitors, such as:

**Package Size:** The Chip Diodes are *leadless*, allowing designers to make real estate savings on PCB layouts. Chip Diodes offer a lower profile and provide height savings over competing SOD80 (MiniMELF) product.

**Environmental:** All small signal diode terminations are *lead-free* with termination Cu/Ni/Au plating. Units meet many worldwide industry and government regulations on lead-free components.

**Manufacturing Friendly:** Chip Diodes allow the use of industry standard pick & place equipment. The Chip Diode package makes it easy to handle and the flat configuration makes rollaway difficult in production operations.

In order to obtain a Bourns® Design Kit please contact your local [Bourns sales office or authorized Bourns distributor](#).

| Kit Number   | <a href="#">CD-LAB1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="#">CD-LAB2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">CD-LAB3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">CD-LAB4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Kit Photo    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Description  | Small Signal Switching & Schottky Barrier Diodes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Schottky Rectifier Diodes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Discrete TVS Diodes SMA Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Discrete TVS Diodes SMB Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Part Numbers | <a href="#">CD0603-B00340</a><br><a href="#">CD0603-B0130L</a><br><a href="#">CD0603-B0140L</a><br><a href="#">CD0603-B0140R</a><br><a href="#">CD0603-B0230</a><br><a href="#">CD0603-B0240</a><br><a href="#">CD0603-S01575</a><br><a href="#">CD0603-S0180R</a><br><a href="#">CD0603-S0180R</a><br><a href="#">CD1005-B00340</a><br><a href="#">CD1005-B0130L</a><br><a href="#">CD1005-B0140L</a><br><a href="#">CD1005-B0140R</a><br><a href="#">CD1005-B0230</a><br><a href="#">CD1005-B0240</a><br><a href="#">CD1005-B0520</a><br><a href="#">CD1005-S01575</a><br><a href="#">CD1005-S0180R</a><br><a href="#">CD1005-S0180R</a><br><a href="#">CD1206-S01575</a> | <a href="#">CD214A-B120LF</a><br><a href="#">CD214A-B130LF</a><br><a href="#">CD214A-B140LF</a><br><a href="#">CD214A-B150LF</a><br><a href="#">CD214A-B160LF</a><br><a href="#">CD214A-B170LF</a><br><a href="#">CD214A-B180LF</a><br><a href="#">CD214A-B1100LF</a><br><a href="#">CD214A-B220LF</a><br><a href="#">CD214A-B230LF</a><br><a href="#">CD214A-B240LF</a><br><a href="#">CD214A-B250LF</a><br><a href="#">CD214A-B260LF</a><br><a href="#">CD214A-B320LF</a><br><a href="#">CD214A-B330LF</a><br><a href="#">CD214A-B340LF</a><br><a href="#">CD214A-B350LF</a><br><a href="#">CD214A-B360LF</a><br><a href="#">CD1206-B220LF</a><br><a href="#">CD1206-B240LF</a><br><a href="#">CD1206-B260LF</a><br><a href="#">CD1206-B2100LF</a><br><a href="#">CD1607-B120LF</a><br><a href="#">CD1607-B120LF</a><br><a href="#">CD1607-B140LF</a><br><a href="#">CD1607-B140LLF</a><br><a href="#">CD2010-B140LF</a><br><a href="#">CD2010-B160LF</a><br><a href="#">CD216A-B120RLF</a><br><a href="#">CD216A-B120LLF</a><br><a href="#">CD216A-B130LLF</a><br><a href="#">CD216A-B140LF</a> | <a href="#">CD214A-T10ALF</a><br><a href="#">CD214A-T10CALF</a><br><a href="#">CD214A-T110CALF</a><br><a href="#">CD214A-T12CALF</a><br><a href="#">CD214A-T130ALF</a><br><a href="#">CD214A-T13ALF</a><br><a href="#">CD214A-T14CALF</a><br><a href="#">CD214A-T15CALF</a><br><a href="#">CD214A-T170ALF</a><br><a href="#">CD214A-T17CALF</a><br><a href="#">CD214A-T18CALF</a><br><a href="#">CD214A-T20CALF</a><br><a href="#">CD214A-T24ALF</a><br><a href="#">CD214A-T24CALF</a><br><a href="#">CD214A-T26CALF</a><br><a href="#">CD214A-T30ALF</a><br><a href="#">CD214A-T33CALF</a><br><a href="#">CD214A-T36ALF</a><br><a href="#">CD214A-T36CALF</a><br><a href="#">CD214A-T43ALF</a><br><a href="#">CD214A-T5.0ALF</a><br><a href="#">CD214A-T5.0CALF</a><br><a href="#">CD214A-T51CALF</a><br><a href="#">CD214A-T58CALF</a><br><a href="#">CD214A-T6.0ALF</a><br><a href="#">CD214A-T6.5ALF</a><br><a href="#">CD214A-T6.5CALF</a><br><a href="#">CD214A-T60ALF</a><br><a href="#">CD214A-T7.5CALF</a><br><a href="#">CD214A-T85CALF</a><br><a href="#">CD214A-T9.0ALF</a><br><a href="#">CD214A-T90CALF</a> | <a href="#">CD214B-T10ALF</a><br><a href="#">CD214B-T10CALF</a><br><a href="#">CD214B-T110CALF</a><br><a href="#">CD214B-T12CALF</a><br><a href="#">CD214B-T130ALF</a><br><a href="#">CD214B-T13ALF</a><br><a href="#">CD214B-T14CALF</a><br><a href="#">CD214B-T15CALF</a><br><a href="#">CD214B-T170ALF</a><br><a href="#">CD214B-T17CALF</a><br><a href="#">CD214B-T18CALF</a><br><a href="#">CD214B-T20CALF</a><br><a href="#">CD214B-T24ALF</a><br><a href="#">CD214B-T24CALF</a><br><a href="#">CD214B-T26CALF</a><br><a href="#">CD214B-T30ALF</a><br><a href="#">CD214B-T33CALF</a><br><a href="#">CD214B-T36ALF</a><br><a href="#">CD214B-T36CALF</a><br><a href="#">CD214B-T43ALF</a><br><a href="#">CD214B-T5.0ALF</a><br><a href="#">CD214B-T5.0CALF</a><br><a href="#">CD214B-T51CALF</a><br><a href="#">CD214B-T58CALF</a><br><a href="#">CD214B-T6.0ALF</a><br><a href="#">CD214B-T6.5ALF</a><br><a href="#">CD214B-T6.5CALF</a><br><a href="#">CD214B-T60ALF</a><br><a href="#">CD214B-T7.5CALF</a><br><a href="#">CD214B-T85CALF</a><br><a href="#">CD214B-T9.0ALF</a><br><a href="#">CD214B-T90CALF</a> |
| Kit Number   | <a href="#">CD-LAB5</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="#">CD-LAB6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">CD-LAB7</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">CD-LAB8</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Kit Photo    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description  | Discrete TVS Diodes SMC Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ESD Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Zener Diodes 0603 Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Zener Diodes 1005 Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Part Numbers | <a href="#">CD214C-T10ALF</a><br><a href="#">CD214C-T10CALF</a><br><a href="#">CD214C-T12CALF</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">CG0402MLU-3.3G</a><br><a href="#">CG0402MLC-3.3LG</a><br><a href="#">CG0603MLU-3.3E</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">CD0603-Z2</a><br><a href="#">CD0603-Z2V2</a><br><a href="#">CD0603-Z2V4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">CD1005-Z2</a><br><a href="#">CD1005-Z2V2</a><br><a href="#">CD1005-Z2V4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|              |                                 |                                 |                             |                             |
|--------------|---------------------------------|---------------------------------|-----------------------------|-----------------------------|
| Part Numbers | <a href="#">CD214C-T13ALF</a>   | <a href="#">CG0603MLC-3.3LE</a> | <a href="#">CD0603-Z2V7</a> | <a href="#">CD1005-Z2V7</a> |
|              | <a href="#">CD214C-T14CALF</a>  | <a href="#">CDSOT563-T05C</a>   | <a href="#">CD0603-Z3</a>   | <a href="#">CD1005-Z3</a>   |
|              | <a href="#">CD214C-T15CALF</a>  | <a href="#">CDSOD323-T03C</a>   | <a href="#">CD0603-Z3V3</a> | <a href="#">CD1005-Z3V3</a> |
|              | <a href="#">CD214C-T170ALF</a>  | <a href="#">CDSOT23-SRV05-4</a> | <a href="#">CD0603-Z3V6</a> | <a href="#">CD1005-Z3V6</a> |
|              | <a href="#">CD214C-T17CALF</a>  | <a href="#">CDSC706-0504F</a>   | <a href="#">CD0603-Z3V9</a> | <a href="#">CD1005-Z3V9</a> |
|              | <a href="#">CD214C-T18CALF</a>  | <a href="#">CG0402MLU-05G</a>   | <a href="#">CD0603-Z4V3</a> | <a href="#">CD1005-Z4V3</a> |
|              | <a href="#">CD214C-T20CALF</a>  | <a href="#">CG0402MLC-05LG</a>  | <a href="#">CD0603-Z4V7</a> | <a href="#">CD1005-Z4V7</a> |
|              | <a href="#">CD214C-T24ALF</a>   | <a href="#">CG0603MLU-05E</a>   | <a href="#">CD0603-Z5V1</a> | <a href="#">CD1005-Z5V1</a> |
|              | <a href="#">CD214C-T24CALF</a>  | <a href="#">CG0603MLC-05LE</a>  | <a href="#">CD0603-Z5V6</a> | <a href="#">CD1005-Z5V6</a> |
|              | <a href="#">CD214C-T30ALF</a>   | <a href="#">CDSOT23-SR208</a>   | <a href="#">CD0603-Z6V2</a> | <a href="#">CD1005-Z6V2</a> |
|              | <a href="#">CD214C-T33CALF</a>  | <a href="#">CDSOD323-T05C</a>   | <a href="#">CD0603-Z6V8</a> | <a href="#">CD1005-Z6V8</a> |
|              | <a href="#">CD214C-T36ALF</a>   | <a href="#">CDSOT23-T03C</a>    | <a href="#">CD0603-Z7V5</a> | <a href="#">CD1005-Z7V5</a> |
|              | <a href="#">CD214C-T43ALF</a>   | <a href="#">CDSOT23-T05C</a>    | <a href="#">CD0603-Z8V2</a> | <a href="#">CD1005-Z8V2</a> |
|              | <a href="#">CD214C-T5.0ALF</a>  | <a href="#">CG1206MLC-05E</a>   | <a href="#">CD0603-Z9V1</a> | <a href="#">CD1005-Z9V1</a> |
|              | <a href="#">CD214C-T5.0CALF</a> | <a href="#">CG0603MLU-12E</a>   | <a href="#">CD0603-Z10</a>  | <a href="#">CD1005-Z10</a>  |
|              | <a href="#">CD214C-T51CALF</a>  | <a href="#">CG0603MLC-12LE</a>  | <a href="#">CD0603-Z11</a>  | <a href="#">CD1005-Z11</a>  |
|              | <a href="#">CD214C-T58CALF</a>  | <a href="#">CG0603MLU-24E</a>   | <a href="#">CD0603-Z12</a>  | <a href="#">CD1005-Z12</a>  |
|              | <a href="#">CD214C-T6.0ALF</a>  | <a href="#">CD143A-SR70</a>     | <a href="#">CD0603-Z13</a>  | <a href="#">CD1005-Z13</a>  |
|              | <a href="#">CD214C-T6.5ALF</a>  | <a href="#">CDSOD323-T12C</a>   | <a href="#">CD0603-Z15</a>  | <a href="#">CD1005-Z15</a>  |
|              | <a href="#">CD214C-T6.5CALF</a> | <a href="#">CDSOT236-T05C</a>   | <a href="#">CD0603-Z16</a>  | <a href="#">CD1005-Z16</a>  |
|              | <a href="#">CD214C-T60ALF</a>   | <a href="#">CDSC706-T05C</a>    | <a href="#">CD0603-Z18</a>  | <a href="#">CD1005-Z18</a>  |
|              | <a href="#">CD214L-T16ALF</a>   | <a href="#">CDDFN2-T4.7C</a>    | <a href="#">CD0603-Z20</a>  | <a href="#">CD1005-Z20</a>  |
|              | <a href="#">CD214L-T20ALF</a>   | <a href="#">CDDFN4-T05</a>      | <a href="#">CD0603-Z22</a>  | <a href="#">CD1005-Z22</a>  |
|              | <a href="#">CD214L-T20CALF</a>  | <a href="#">CDDFN8-T05</a>      | <a href="#">CD0603-Z24</a>  | <a href="#">CD1005-Z24</a>  |
|              | <a href="#">CD214L-T64ALF</a>   | <a href="#">CDDFN10-3304N</a>   | <a href="#">CD0603-Z27</a>  | <a href="#">CD1005-Z27</a>  |
|              | <a href="#">CD214C-T85CALF</a>  | <a href="#">CD143A-SR2.8</a>    | <a href="#">CD0603-Z30</a>  | <a href="#">CD1005-Z30</a>  |
|              | <a href="#">CD214C-T9.0ALF</a>  | <a href="#">CD143A-SR3.3</a>    | <a href="#">CD0603-Z33</a>  | <a href="#">CD1005-Z33</a>  |
|              | <a href="#">CD214C-T90CALF</a>  | <a href="#">CD143A-SR05</a>     | <a href="#">CD0603-Z36</a>  | <a href="#">CD1005-Z36</a>  |
|              | <a href="#">CD214C-T170ALF</a>  | <a href="#">CD143A-SR12</a>     | <a href="#">CD0603-Z39</a>  | <a href="#">CD1005-Z39</a>  |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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