Search English Keyword Search My Bourns Contact Us Careers **BOURNS**° Applications Market Segments Support **Products** News Resources Home / Resources / Design Tools / Design Kits / Diodes Design Kits - 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 Model 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, are easy to handle with standard pick and place equipment and their flat configuration minimizes roll away. 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 their flat configuration. minimizes roll away during production operations. In order to obtain a Bourns® Design Kit please contact your local Bourns sales office or authorized Bourns distributor. Kit Number Kit Photo Description **Part Numbers** CD0603-B0340R CD-LAB2 Rectifier Diodes CD1206-B2100 CD1206-B260 CD1408-FF11500 CD1408-FF11000 CD1408-F11000 CD1408-FU1800 CD1408-FU1600 CD1408-FU1400 CD1408-FU1200 CD123D-B140LR CD214A-B360R CD214A-B340LR CD214A-B1100R CD214A-B160R CD214A-B140LR CD214B-FS3K CD214B-FS3J CD214B-FS3G CD214B-FS3D CD214B-B360R CD214B-B340R CD-MBL210SL CD-HD201L CD-HD2006L CD214C-S3M CD214C-FS3J CD214C-FS3G CD214C-FS3D CD214C-B3100R CD214C-B340R CD-DF410SL CD-LAB3 Discrete TVS Diodes SMA Package SMAJ10A SMAJ10CA SMAJ110A SMAJ12CA SMAJ130A SMAJ13A SMAJ14CA SMAJ15CA SMAJ170A SMAJ17CA SMAJ18CA SMAJ20CA SMAJ24A SMAJ24CA SMAJ26CA SMAJ30A SMAJ33CA SMAJ36A SMAJ36CA SMAJ43A SMAJ5.0A SMAJ5.0CA SMAJ51CA SMAJ58CA SMAJ6.0A SMAJ6.5A SMAJ6.5CA SMAJ60A SMAJ7.5CA SMAJ85CA SMAJ9.0A SMAJ90CA Discrete TVS Diodes SMB Package CD-LAB4 SMBJ10A SMBJ10CA SMBJ110CA SMBJ12CA SMBJ130A SMBJ13A SMBJ14CA SMBJ15CA SMBJ170A SMBJ17CA SMBJ18CA SMBJ20CA SMBJ24A SMBJ24CA SMBJ26CA SMBJ30A SMBJ33CA SMBJ36A SMBJ36CA SMBJ43A SMBJ5.0A SMBJ5.0CA SMBJ51CA SMBJ58CA SMBJ6.0A SMBJ6.5A SMBJ6.5CA SMBJ60A SMBJ7.5CA SMBJ85CA SMBJ9.0A SMBJ90CA -CD-LAB5 Discrete TVS Diodes SMC Package SMCJ10A SMCJ10CA SMCJ12CA SMCJ13A SMCJ14CA SMCJ15CA SMCJ170A SMCJ17CA SMCJ18CA SMCJ20CA SMCJ24A SMCJ24CA SMCJ30A SMCJ33CA SMCJ36A SMCJ43A SMCI5.0A SMCI5.0CA SMCJ51CA SMCJ58CA SMCI6.0A SMCI6.5A SMCI6.5CA SMCJ60A SMLJ16A SMLJ20A SMLJ20CA SMLI64CA SMCJ85CA SMCI9.0A SMCJ90CA SMCJ170CA CD-LAB6 ESD Protection CD0201-T20C CG0402MLU-3.3G CG0402MLC-3.3LG CG0603MLU-3.3E CG0603MLC-3.3LE CDSOD323-T03C CDSOT23-SRV05-4 CG0402MLU-05G CG0402MLC-05LG CG0603MLU-05E CG0603MLC-05LE CDSOT23-SR208 CDSOD323-T05C CDSOT23-T03C CDSOT23-T05C CG0603MLU-12E CG0603MLC-12LE CG0603MLU-24E CD143A-SR70 CDSOD323-T12C CDSOT236-T05C CDDFN2-T3.3B CDDFN2-T5.0LC CDDFN10-3304NA CD143A-SR2.8 CD143A-SR3.3 CD143A-SR05 CD143A-SR12 CD-LAB9 Discrete 3 kW TVS Diodes SMC Package SMLI6.5A SMLJ10CA SML13A SMU15A SMLJ15CA SMLJ16A SMU17A SMLJ20A SMLJ20CA SMLJ24A SMLJ24CA SMLJ26A SMLJ26CA SMLJ28CA SMLJ30A SMLJ30CA SMLJ33A SMLJ33CA SMLJ36CA SMLJ40A SMLJ45A SMLJ48A SMLJ48CA SMLJ51CA SMLJ54CA SMLJ58A SMLJ58CA SMLI64CA SMLJ70CA SMLJ75CA SMLI85CA SMLJ150CA CD-LAB10 Discrete 5 kW TVS Diodes SMC Package 5.0SMDJ10A 5.0SMDJ10CA 5.0SMDJ11A 5.0SMDJ11CA 5.0SMDJ12A 5.0SMDJ12CA 5.0SMDJ13CA 5.0SMDJ14CA 5.0SMDJ15A 5.0SMDJ15CA 5.0SMDJ16CA 5.0SMDJ20A 5.0SMDJ20CA 5.0SMDJ24A 5.0SMDJ24CA 5.0SMDJ26CA 5.0SMDJ28A 5.0SMDJ28CA 5.0SMDJ30A 5.0SMDJ30CA 5.0SMDJ33A 5.0SMDJ33CA 5.0SMDJ36A 5.0SMDJ36CA 5.0SMDJ40A 5.0SMDJ40CA 5.0SMDJ45A 5.0SMDJ45CA 5.0SMDJ48A 5.0SMDJ48CA 5.0SMDJ58A 5.0SMDJ64A CD-LAB11 AEC-Q101 Compliant TVS Diodes SMAJ17A-0 SMAJ20A-Q SMAJ24A-Q SMAJ28A-O SMBJ17A-Q SMBJ20A-Q SMBJ24A-O SMBJ28A-Q SMBJ33A-O SMCJ17A-0 SMCJ20A-0 SMCJ24A-0 SMCJ28A-0 <u>SMCJ33A-Q</u> <u>SMU17A-Q</u> SMLJ20A-O SMLJ24A-Q SMLJ28A-Q SMLJ33A-0 SMLJ36A-Q 5.0SMDJ17A-Q 5.0SMDJ20A-Q 5.0SMDJ24A-Q 5.0SMDJ28A-Q 5.0SMDJ33A-Q 5.0SMDJ36A-Q SM8SF24A-Q SM8SF33A-Q SM8SF36A-Q SM8S24A-Q SM8S33A-O SM8536A-Q Support **Applications Products** Markets Resources Technical Library New Products Automotive Automotive Contact New Product Releases Consumer Electronics Sales Locations Circuit Protection **Global Locations** AEC-Q Compliant Products Product Activity Summary **Power Conversion** ESD Protection Guide Lighting Circuit Protection Data Sheets Sensing Request Samples CO & Outside Plant Products Video Library About Us Connectors Product Change Notifications Military Careers Diodes Product Obsolescence Memos Sitemap Obsolete Data Sheets Network Communications **TEL-NOTE Solutions** Office Machines Fuses New Products PortNote® Solutions Industrial & Instrumentation **New Publications** LED Shunt Protectors Telecommunications Powernote Solutions Legal Magnetic Products Design Tools Tradeshows

Bourns' Environmental Policy Surge Protective Devices Switches Bourns' REACH Letter Thermal Cutoff Devices (TCOs) **Bourns TSCA Statement** Trimpot® Trimming Potentiometers SCIP Submittal Listing ProAudio China VOC Declaration **Guitar Pots** Bourns' CA Proposition 65 Statement Conflict Mineral Reporting Pro Lighting Subscriptions Bourns, Inc. uses cookies to improve user experience and analyze our website traffic. By clicking "I Agree," you consent to store these cookies on your device. You can change your cookie settings at any time by clicking "Cookie Settings" in the footer links on this page. Privacy Policy

Reference Design

FAQ5

RoHS - MDS

Fixed Resistors Part Number Lookup

Microelectronic Modules

Resistors Sensors

Downloaded from Arrow.com.

Social Media

Services Microelectronic Modules New Product Introduction Capabilities Quality Analysis, Modeling and Testing Cookie Settings

I AGREE

Disclaimers, Terms and Policies CA Transparency in Supply Chains Act Cookie Settings

© 2021 Bourns, Inc. All Rights Reserved.