

Pinnacle of Protection: MCC's Ultra-Low Capacitance ESD Diodes

1.5V OR 3.3V VRWM ESD DIODES



Features

- Low Clamping Voltage: 2.9V
- Ultra-Low Capacitance: 0.2pF
- IEC 61000-4-2 (ESD) Immunity Test:
 - Air discharge: $\pm 15\text{kV}$
 - Contact discharge: $\pm 12\text{kV}$
- IEC 61000-4-5 (Lightning): Rated for 4A (8/20 μs)
- Bidirectional Protection
- Compact Package Options
- High Reliability



Benefits

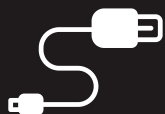
Superior ESD Protection:

Provides robust protection with ratings up to $\pm 15\text{kV}$ for air discharge and 4A for lightning, ensuring device reliability.

Ultra-Low Capacitance:

With only 0.2pF, these diodes maintain signal integrity in high-speed applications like Thunderbolt 3 and USB4.

Applications



High-Speed
Data Transfer



Video and
Display
Interfaces

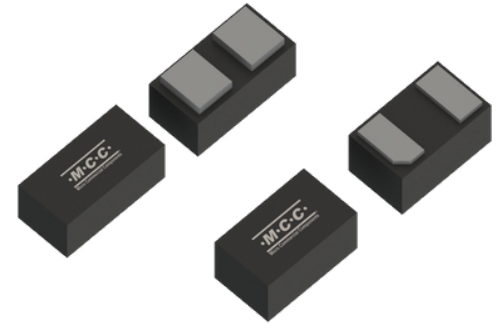


Consumer
Electronics



Bidirectional Snap-Back Solutions in 1.5V or 3.3V VRWM Options

High-Performance ESD Defense for Low-Voltage Applications



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Reverse Working Voltage (VRWM)	Clamping Voltage (Vc)	Junction Capacitance (Cj)	Mounting Type	Datasheet
<u>CSPSBULC1V5AE</u>	ESD Protection Device	CSP0201	1.5V	2.9V	0.2pF	Surface-Mount (SMD)	<u>Info</u>
<u>CSPSBULC1V5LB</u>	ESD Protection Device	CSP1006-2	1.5V	2.9V	0.2pF	Surface-Mount (SMD)	<u>Info</u>
<u>CSPSBULC3V3AE</u>	ESD Protection Device	CSP0201	3.3V	2.9V	0.2pF	Surface-Mount (SMD)	<u>Info</u>
<u>CSPSBULC3V3LB</u>	ESD Protection Device	CSP1006-2	3.3V	2.9V	0.2pF	Surface-Mount (SMD)	<u>Info</u>

Applications:



High-Speed Data Transfer

- Thunderbolt 3
- USB4
- USB 3.2
- USB 3.1

Video and Display Interfaces

- DisplayPort
- HDMI

Consumer Electronics

- Smartphones
- Tablets
- Laptops

CONTACT MCC TO REQUEST A SAMPLE

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