

## 3.3V & 5V ESD PROTECTION



### Features

- AEC-Q101 Qualified
- Low Clamping Voltage
- Ultra-Low Capacitance
- IEC 61000-4-2 (ESD) Immunity Test:
  - Air Discharge:  $\pm 20\text{kV}$  to  $\pm 15\text{kV}$
  - Contact Discharge:  $\pm 20\text{kV}$  to  $\pm 8\text{kV}$
- IEC 61000-4-5 (Lightning) Compliance
- Side-Wettable Flanks



### Benefits

Our ESD protection diodes made for ultimate performance: [ESDULC5V0LBWFHE3](#) and [ESDULC3V3LBWFHE3](#).

These components boast features that add up to unquestionable reliability while safeguarding sensitive electronics from signal degradation and damage caused by electrostatic discharge.

### Applications



Automotive




Industrial



Computing

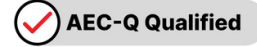
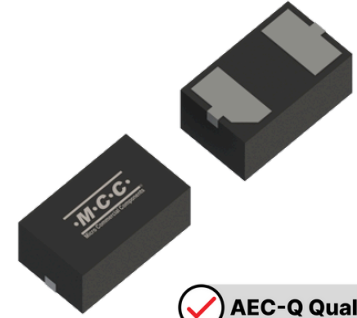
# Enhance ESD Protection: MCC's Auto-Grade, Ultra-Low Capacitance Diodes



 AEC-Q Qualified

## 3.3V and 5V Options in DFN1006-2L Package with Side-Wettable Flanks

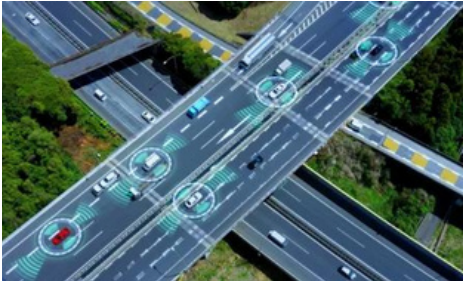
# Devices comply with IEC 61000-4-2 (ESD) and IEC 6100-5-2 (lightning)



## Product Attributes, Parametrics & Datasheets

Product	Type	Package	Reverse Working Voltage VRWM	Peak Pulse Current IPP	Max. Clamping Voltage VC	Typ. Junction Capacitance CJ	Mounting Type	Datasheet
<a href="#">ESDULC5V0LBWFHE3</a>	ESD Protection Device	DFN1006-2L(SWF)	5V	3A	20V	0.25pF	Surface-mount (SMD)	<a href="#">Info</a>
<a href="#">ESDULC3V3LBWFHE3</a>	ESD Protection Device	DFN1006-2L(SWF)	3.3V	4A	20V	0.35 pF	Surface-mount (SMD)	<a href="#">Info</a>

## Applications:



### Automotive

- High-speed data communication in infotainment systems, such as HDMI, USB 3.0, and Thunderbolt

### Industrial

- Robotics communication interfaces
- Factory automation systems
- Industrial IoT devices
- Control systems for machinery

### Computing

- High-speed data ports in laptops and desktops
- Peripheral devices, such as cameras and external drives
- Mobile devices
- Smartphones
- Tablets
- Home entertainment systems with HDMI connectivity

**CONTACT MCC TO REQUEST A SAMPLE**

mccsemi.com | +818.701.4933

