



# New Product Announcement

## DPO2036DBB

### 4 Channel Short-to-VBUS & ESD Protection for USB Type-C® in 4mm<sup>2</sup> Footprint

The DPO2036DBB provides 4-channel overvoltage protection against unexpected short-to-VBUS events—due to, for example, connection misalignment or debris ingress—in USB Type-C Port with Power Delivery (PD) applications. Specifically designed to protect system-side components connected to the sideband data pins (SBU1&2) and configuration channel pins (CC1&2), inline FETs provide switched isolation when overvoltage is detected.

The DPO2036DBB also provides a high level of ESD protection, removing the need for external transient voltage suppressors.

In portable solutions where the system-side supply battery becomes depleted, the DPO2036DBB switches configuration to take its power from the connected device, thus maintaining active protection.

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#### The Diodes Advantage

- **4 Channels of Overvoltage Protection**  
Isolates the system from the high voltage on the connector
- **IEC61000-4-2 ESD Protection over CCx & SBUx Pins**  
Protects from ESD
- **Compact and Low-Profile U-QFN2020 Package**  
Miniature 4mm<sup>2</sup> footprint allows for greater space-saving
- **Dead Battery Charging and Power Delivery**  
Switched embedded resistors configure power source
- **Overtemperature Protection**  
Thermal shutdown when 150°C is exceeded

#### Applications

- VR/AR Headsets, Gaming Controllers
- AC/DC Chargers
- Notebook/Desktop/AIO PCs, Tablets, Mobile Phones
- TVs, PC Monitors
- Docking Stations, Hubs
- Set-Top-Boxes, Residential Gateways, Storage Devices
- Action Cameras

