48 V Type-C CC and SBU Protection IC for USB PD3.1 EPR

NX48P0407

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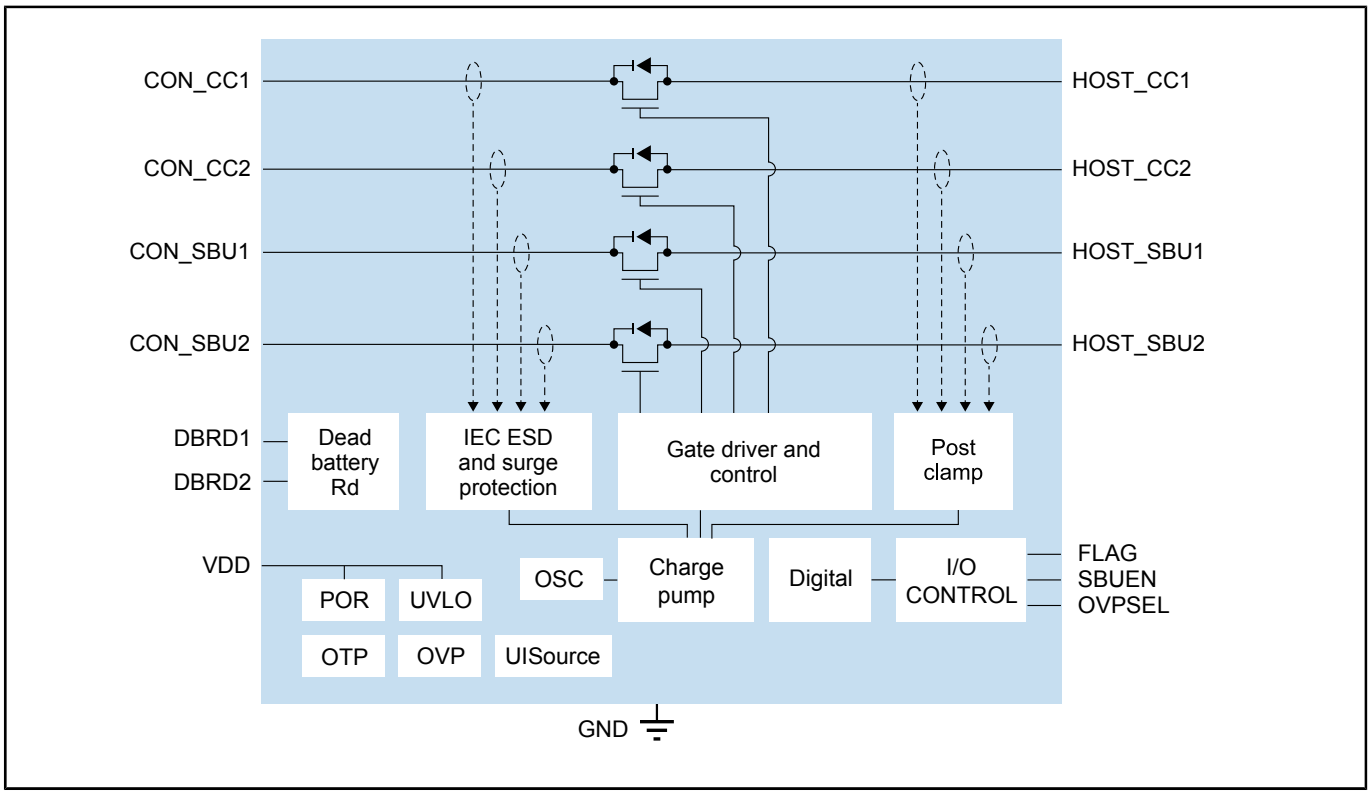
The NX48P0407 is a CC and SBU protection IC which can protect the short-to-VBUS damage on CC and SBU pins of Type-C for USB-PD EPR application. USB Type-C allows VBUS voltage to increase up to 48 V through PD 3.1 protocol. CC1/2 and SBU1/2 pins can be shorted to VBUS of 48 V due to mechanical twisting and sliding of the connector since Type-C connector contact pins are 25% closer to each other than a micro USB connector. The NX48P0407 integrates IEC 61000-4-2 ESD protection on CON_CC1 and CON_CC2, ± 15 KV air discharge and ± 8K V contact discharge, and are designed to be protected from surges up to +80 V.

NX48P0407 Block Diagram



View additional information for 48 V Type-C CC and SBU Protection IC for USB PD3.1 EPR.

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