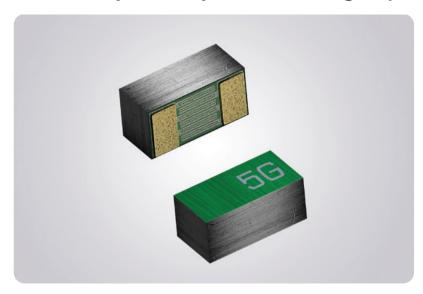


## **ESD Protection Diodes in CLP Series**

## Single-Line ESD Protection Diodes in Ultra Compact Chip Level Packages (CLP)



#### **KEY BENEFITS**

- ESD protection diodes in the ultra compact chip level package (CLP) series
  - CLP0603 package features a low profile of 0.28 mm
- Working range: ± 3.3 V to ± 15 V
- Low leakage current down to < 0.05 μA</li>
- Low capacitance down to < 0.4 pF</li>
- ESD protection according to IEC 61000-4-2
  - $-\pm 15$  kV up to  $\pm 30$  kV
- Operating temperature range of -55 °C to +150 °C
- RoHS-compliant and halogen-free
- AEC-Q101 qualified available

#### **APPLICATIONS**

- ESD protection of high speed interfaces in smartphones, digital cameras, and gaming systems
- Wearables
- Automotive

#### **RESOURCES**

- Datasheets: please see next page for the list of products
- For technical questions contact <u>DiodesAmericas@vishay.com</u>, <u>DiodesEurope@vishay.com</u>, <u>DiodesAsia@vishay.com</u>
- Material categorization: for definitions of compliance, please see <a href="www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>





## **ESD Protection Diodes in CLP Series**

# Single-Line ESD Protection Diodes in Ultra Compact Chip Level Packages (CLP)

Cut the spikes! Vishay's single-line ESD protection devices clamp positive and negative overvoltage transients to ground. Connected between the signal or data line and the ground, these devices offer high isolation (low leakage current, low capacitance) within the specified working range. Due to the short leads and small size of the ultra compact CLP series packages, the line inductance is very low so that fast transients like an ESD strike can be clamped with minimal over- or undershoots.

ESD PROTECTION DIODES IN CLP SERIES						
VISHAY PART NUMBER	V <sub>RWM</sub> (V)	Ι <sub>R</sub> (μΑ)	C <sub>D</sub> (pF)	CONTACT DISCHARGE (1) (kV)	AIR DISCHARGE (1) (kV)	AEC-Q101 QUALIFIED AVAILABLE
VBUS03B1-SD0	± 3.3	< 0.05	0.4	± 16	± 16	No
VBUS05B1-SD0	± 5.5	< 0.05	0.4	± 16	± 16	No
VCUT03G1-SD0	± 3.3	< 0.1	14	± 30	± 30	Yes
VCUT05G1-SD0	± 5.5	< 0.1	14	± 30	± 30	Yes
VCUT10G1-SD0	± 10	< 0.05	9	± 24	± 24	Yes
VCUT15G1-SD0	± 15	< 0.05	6.5	± 15	± 15	Yes

#### Note

<sup>(1)</sup> According to IEC 61000-4-2