



# ESD PROTECTION DIODES

## IN ULTRA COMPACT CHIP-LEVEL PACKAGE (CLP)



**Single-line**  
ESD protection diodes



**Working** range:  
 $\pm 3.3\text{ V}$  to  $\pm 15\text{ V}$



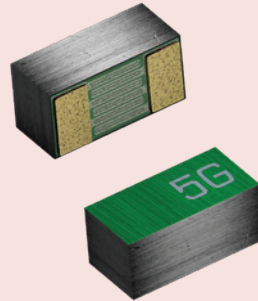
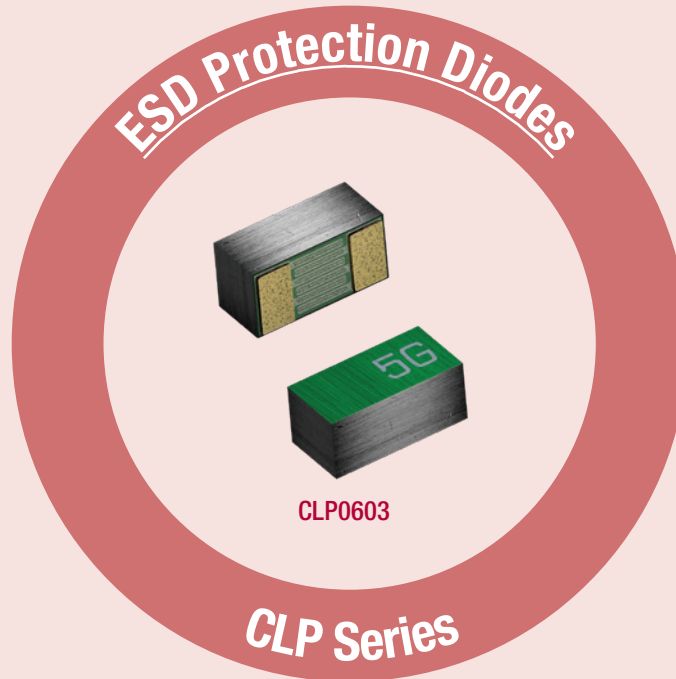
**Low leakage** current:  
down to  $< 0.05\ \mu\text{A}$



**Low capacitance:**  
down to  $< 0.4\ \text{pF}$

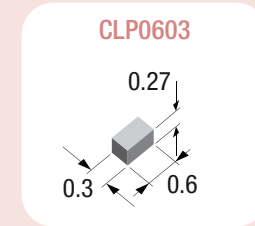


**Operating temperature**  
range:  $-55\text{ }^\circ\text{C}$  to  $+150\text{ }^\circ\text{C}$



CLP0603

### PACKAGE SIZES (DIMENSION)



### APPLICATIONS



SMARTPHONES



WEARABLES



GAMING SYSTEMS



AUTOMOTIVE



DIGITAL CAMERAS

Vishay Part Number	Description	Package Name	Working Voltage $V_{RWM}$ (V) Bidirectional	Leakage Current $I_R$ ( $\mu\text{A}$ )	Capacitance $C_D$ at $V_R = 0\text{ V}$ (pF)	ESD Immunity Acc. IEC 61000-4-2 (150 pF / 330 $\Omega$ ) (kV)	AEC-Q101 Qualified Available
<a href="#">VBUS03B1-SD0</a>	Single-line ESD protection diode	CLP0603-2L	$\pm 3.3$	$< 0.05$	0.4	$\pm 16$	No
<a href="#">VBUS05B1-SD0</a>			$\pm 5.5$	$< 0.05$	0.4	$\pm 16$	No
<a href="#">VCUT03G1-SD0</a>			$\pm 3.3$	$< 0.1$	14	$\pm 30$	Yes
<a href="#">VCUT05G1-SD0</a>			$\pm 5.5$	$< 0.1$	14	$\pm 30$	Yes
<a href="#">VCUT10G1-SD0</a>			$\pm 10$	$< 0.05$	9	$\pm 24$	Yes
<a href="#">VCUT15G1-SD0</a>			$\pm 15$	$< 0.05$	6.5	$\pm 15$	Yes

For technical questions: [DiodesAmericas@vishay.com](mailto:DiodesAmericas@vishay.com), [DiodesEurope@vishay.com](mailto:DiodesEurope@vishay.com), or [DiodesAsia@vishay.com](mailto:DiodesAsia@vishay.com)