



ESD PROTECTION DIODES AND EMI FILTER IN ULTRA COMPACT CHIP-LEVEL PACKAGE (CLP)



Single-line and **4-line**
ESD protection diodes
and EMI-filter



Working range:
± 3.3 V to **± 15 V**



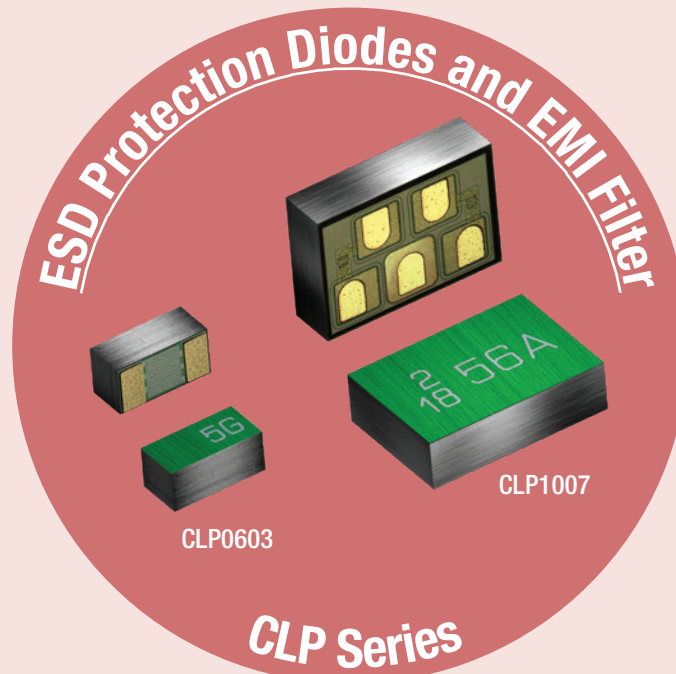
Low leakage current:
< 0.05 μA



Low capacitance:
< 0.4 pF



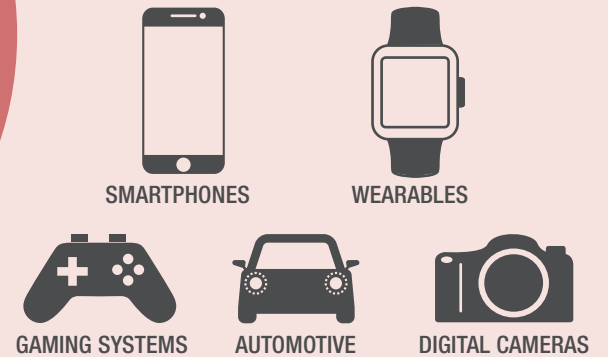
Operating temperature
range: **-55 °C** to **+150 °C**



PACKAGE SIZES (DIMENSION)



APPLICATIONS



Vishay Part Number	Description	Package Name	Working Voltage V_{RWM} (V)		Leakage Current I_R (μA)	Capacitance C_D at $V_R = 0V$ (pF)	ESD Immunity Acc. IEC61000-4-2 (150 pF / 330 Ω) (kV)	Cut-Off Frequency (MHz)	AEC-Q101 Qualified Available
			Unidirectional	Bidirectional					
VBUS03B1-SD0	Single-line ESD protection diode	CLP0603-2L		± 3.3	< 0.05	0.4	± 16		Yes
VBUS05B1-SD0				± 5.5	< 0.05	0.4	± 16		Yes
VCUT03G1-SD0				± 3.3	< 0.1	14	± 30		Yes
VCUT05G1-SD0				± 5.5	< 0.1	14	± 30		Yes
VCUT10G1-SD0				± 10	< 0.1	9	± 24		Yes
VCUT15G1-SD0				± 15	< 0.1	6.5	± 15		Yes
VBUS54FD-SD1	4-line ESD protection diode array	CLP1007-5L	5.5		< 0.1	1	± 15		
VEMI256A-SD2	2-channel EMI filter	CLP1007-5M		± 5.5	< 0.5	116	± 25	60	

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