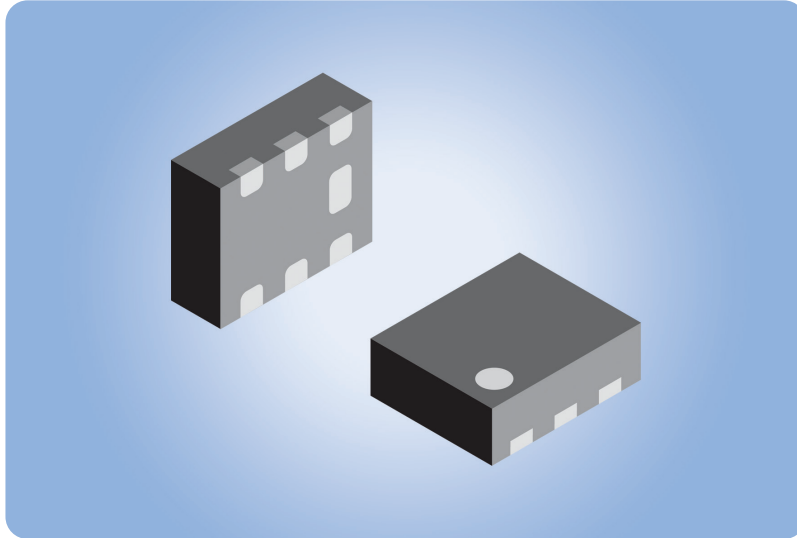


2-Line BUS-Port ESD Protection Array Provides Low Load Capacitance of 0.8 pF



KEY BENEFITS

- 2-line ESD protection with flow-through design
- Capacitance $C_D = 0.8$ pF
- ESD immunity: ± 15 kV (IEC 61000-4-2)
- Compact LLP1713-7L package with low package height of < 0.6 mm

APPLICATIONS

- ESD protection in high speed data applications such as USB, HDMI, display port, eSATA, and 1394/Firewire

RESOURCES

- Datasheet: VBUS052CD-FAH - www.vishay.com/ppg?81881
- For technical questions contact ESDProtection@vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



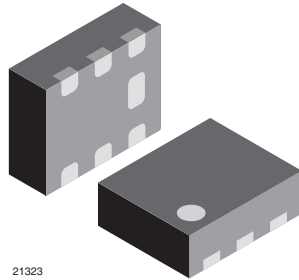
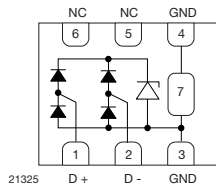
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2-Line BUS-Port ESD Protection Array Provides Low Load Capacitance of 0.8 pF



FEATURES

- Compact LLP1713-7L package
- Low package height < 0.6 mm
- 2-line ESD protection
- Low leakage current $I_R < 0.1 \mu A$
- Low load capacitance $C_D = 0.8 \text{ pF}$
- Ideal for high speed data line like
 - HDMI, DisplayPort, eSATA
 - USB, 1394/firewire
- ESD immunity acc. IEC 61000-4-2
 - $\pm 15 \text{ kV}$ contact discharge
 - $\pm 15 \text{ kV}$ air discharge
- Soldering can be checked by standard vision inspection; no X-ray necessary
- e4 - precious metal (e.g. Ag, Au, NiPd, NiPdAu) (no Sn)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



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MARKING (example only)



Dot = pin 1 marking
Y = type code (see table below)
XX = date code

ADDITIONAL RESOURCES



ORDERING INFORMATION			
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL (8 mm TAPE ON 7" REEL)	MINIMUM ORDER QUANTITY
VBUS052CD-FAH	VBUS052CD-FAH-GS08	3000	15 000

PACKAGE DATA						
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VBUS052CD-FAH	LLP1713-7L	G	3.7 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

ABSOLUTE MAXIMUM RATINGS VBUS052CD-FAH				
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT
Peak pulse current	Acc. IEC 61000-4-5; $t_p = 8/20 \mu s$; single shot	I_{PPM}	3.5	A
Peak pulse power	Acc. IEC 61000-4-5; $t_p = 8/20 \mu s$; single shot	P_{PP}	63	W
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 15	kV
	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 15	kV
Operating temperature	Junction temperature	T_J	-40 to +125	°C
Storage temperature		T_{STG}	-55 to +150	°C

Revision: 14-Oct-2019

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[D1213A-01LP4-7B](#) [D1213A-02WL-7](#) [ESDLIN1524BJ-HQ](#) [5KP100A](#) [5KP15A](#)