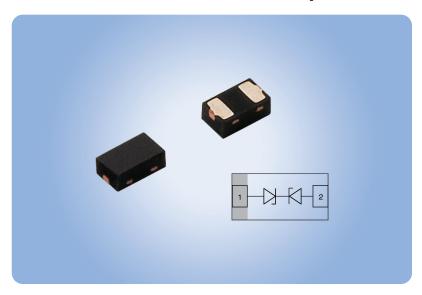




VCUT07B1-HD1

Bidirectional and Symmetrical (BiSy) Single-Line **ESD Protection Diode With Low Capacitance of 14 pF**



KEY BENEFITS

- Ultra compact LLP1006-2L package
 - Small footprint: 1.0 mm by 0.6 mm
 - Extremely low profile of < 0.4 mm
- Low capacitance: 14 pF
- Low leakage current of < 0.1 µA at the working voltage of ± 7 V
- Reverse breakdown voltage of 7.3 V minimum at 1 mA
- Maximum clamping voltage of 15 V at 4 A
- High surge protection in accordance with IEC 61000-4-5 at 4 A
- · Environmentally friendly "green" specifications, lead (Pb)-free devices

APPLICATIONS

ESD protection in portable electronics, including notebook computers and smartphones

RESOURCES

- Datasheet: VCUT07B1-HD1 www.vishay.com/ppg?84137
- For technical questions contact <u>ESDProtection@vishay.com</u>
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912





RoHS

HALOGEN FREE

GREEN (5-2008)





HALOGEN

FREE

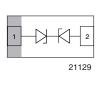
GREEN

(5-2008)



VCUT07B1-HD1

Bidirectional and Symmetrical (BiSy) Single-Line **ESD Protection Diode With Low Capacitance of 14 pF**





MARKING (example only)



Bar = pin 1 marking X = date code Y = type code (see table below)

DESIGN SUPPORT TOOLS





FEATURES

- Ultra compact LLP1006-2L package
- Low package profile < 0.4 mm
- 1-line ESD protection
- Working range ± 7 V
- Low leakage current I_R < 0.1 μA
- Low load capacitance C_D = 14 pF
- ESD immunity acc. IEC 61000-4-2 ± 30 kV contact discharge
- ± 30 kV air discharge
- Soldering can be checked by standard vision inspection; no X-ray necessary
- Pin plating NiPdAu (e4) no whisker growth
- e4 precious metal (e.g. Ag, Au, NiPd, NiPdAu) (no Sn)
- PATENT(S): www.vishav.com/patents
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ORDERING INFORMATION								
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL (8 mm TAPE ON 7" REEL)	MINIMUM ORDER QUANTITY					
VCUT07B1-HD1	VCUT07B1-HD1-G4-08	8000	8000					

PACKAGE DATA							
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS	
VCUT07B1-HD1	LLP1006-2L	U	0.72 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C	

ABSOLUTE MAXIMUM RATINGS VCUT07B1-HD1								
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT				
Peak pulse current	Acc. IEC 61000-4-5; $t_p = 8/20 \mu s$; single shot	I _{PPM}	4	Α				
Peak pulse power	Pin 1 to pin 2 acc. IEC 61000-4-5; $t_p = 8/20 \mu s$; single shot	P _{PP}	60	W				
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV				
	Air discharge acc. IEC 61000-4-2; 10 pulses	VESD	± 30	kV				
Operating temperature	Junction temperature	T _J	-40 to +125	°C				
Storage temperature		T _{stg}	-55 to +150	°C				

PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.

X-ON Electronics

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P6KE8.2A SA110CA SA60CA SA64CA SMBJ12CATR SMBJ8.0A SMLJ30CA-TP ESD101-B1-02ELS E6327 ESD112-B1-02EL E6327
ESD119B1W01005E6327XTSA1 ESD5V0L1B02VH6327XTSA1 ESD7451N2T5G 19180-510 CPDT-5V0USP-HF 3.0SMCJ33CA-F
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