



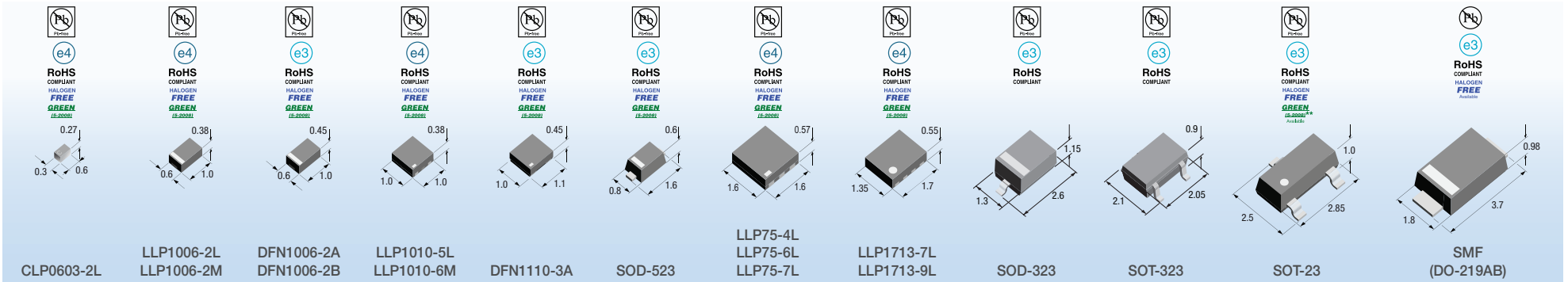
The DNA of tech.™

[www.vishay.com/diodes/protection-tvs-esd](http://www.vishay.com/diodes/protection-tvs-esd)

# VISHAY INTERTECHNOLOGY, INC.

## ESD PROTECTION DIODES

### Vishay Semiconductors



**e3** = Pins plated with tin (Sn)  
**e4** = Pins plated with precious metal (e.g. Ag, Au, NiPd, NiPdAu) (no Sn)

= Totally lead (Pb)-free according to JESD97

= Termination are lead (Pb)-free according to JESD97  
**RoHS COMPLIANT** = RoHS-compliant according to EU Directive 2011/65/EU

**GREEN** = Part is GREEN according to Vishay's definition see: [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)  
**HALOGEN FREE** = Halogen-free according to JEDEC® JS709A

Package																
Circuit Diagram																
Part Numbers	<b>VCUT0361-SDO</b> <b>VCUT0561-SDO</b> <b>VCUT1061-SDO</b> <b>VCUT1561-SDO</b>  <b>VBUS05B1-SDO</b>		<b>VESD03A1B-HD1</b> <b>VESD03A1C-HD1</b> <b>VESD05A1A-HD1</b> <b>VESD05A1B-HD1</b> <b>VESD05A1C-HD1</b>		<b>VCUT0505B-HD1</b> <b>VCUT0714A-HD1</b> <b>VCUT07B1-HD1</b> <b>VCUT05B1-DD1</b> <b>VBUS05L1-DD1</b>		<b>VESD01C1-HD1 to VESD33C1-HD1</b> <b>VMMBZ16C1DD1 to VMMBZ33C1DD1</b> <b>VBUS03N1-HD1</b> <b>VBUS05N1-HD1</b> <b>VESD24E1-HD1</b>		<b>VCUT0714BHD1</b> <b>VMMBZ16C1DD1 to VMMBZ33C1DD1</b> <b>VBUS03N1-DD1</b> <b>VBUS05N1-DD1</b> <b>VETH100A1DD1</b> <b>VLIN1616-DD1</b> <b>VLIN1626-DD1</b> <b>VLIN2626-DD1</b>		<b>VBUS05M2-HT5</b> <b>VCAN24A2-HT5</b> <b>VCAN33A2-HT5</b> <b>VCAN36A2-HT5</b>		<b>VESD01C1-02V to VESD33C1-02V</b> <b>VESD05A1-02V</b> <b>VESD05B1-02V</b> <b>VBUS05M1-02V</b>		<b>VCUT0714A-02V</b>	
Package																
Circuit Diagram																
Part Numbers	<b>Coming soon: VGS0T03C to VGS0T36C</b>		<b>Coming soon: VGS0T03 to VGS0T36</b>		<b>VCAN16A2-03S</b> <b>VCAN26A2-03S</b> <b>VCAN33A2-03S</b> <b>VCAN36A2-03S</b> <b>VCAN18A2-03S</b> <b>VETH100A203S</b>		<b>VBUS052BD-HTF</b>		<b>VBUS54DD-HS4</b>		<b>VBUS054DD-HF4</b>		<b>VBUS052CD-FAH</b>			
Part Numbers	<b>Coming soon: VESD05A5A-HSF</b> <b>GMF05C-HSF</b>		<b>VBUS054B-HSF</b> <b>VBUS54CV-HSF</b>		<b>VESD05A6-HAF</b> <b>VESD05A6A-HAF</b>		<b>VBUS053AZ-HAF</b> <b>VBUS053CZ-HAF</b>		<b>VESD05A8A-HNH</b>		<b>SMF5V0A to SMF58A</b> <b>VTVS3V3ASMF to VTVS63GSMF</b>					

**Bold** = new product

For technical questions, contact: [ESDProtection@vishay.com](mailto:ESDProtection@vishay.com)

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT [www.vishay.com/doc?91000](http://www.vishay.com/doc?91000)

SELECTOR GUIDE

1/2

© 2024 VISHAY INTERTECHNOLOGY, INC. ALL RIGHTS RESERVED.

SG2193-2405  
[www.vishay.com/doc?49673](http://www.vishay.com/doc?49673)



The DNA of tech.®

www.vishay.com/diodes/protection-tvs-esd

VISHAY INTERTECHNOLOGY, INC.

# ESD PROTECTION DIODES

Vishay Semiconductors

## ESD Protection Diodes (ESD = Electrostatic Discharge)

Reverse Working Voltage

$t_{20\mu s} = 8/20 \mu s$   
 $t_{10/1000} = 10/1000 \mu s^*$

$P_{8/20\mu s} = 8/20 \mu s$   
 $P_{10/1000} = 10/1000 \mu s^*$

$\Delta = 10$   
 $\nabla = 10$

ESD Immunity  
acc. IEC 61000-4-2

Package

