

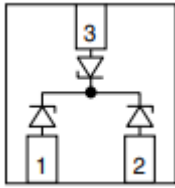
# VCAN ESD Protection Diodes: New Options in the DFN1110-3A Package for Automotive Applications

We've added two new products to our VCAN portfolio of automotive ESD protection devices in the ultra small DFN1110-3A package (1.1 mm x 1.0 mm x 0.45 mm) with sidewall plated flanks.

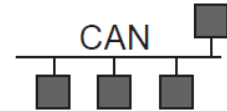
The new VCAN33A2-HT5 and VCAN36A2-HT5 are bidirectional low capacitance dual-line ESD protection devices for automotive CAN-FD bus applications. They feature low load capacitance and excellent capacitance matching from channel to channel, which ensures better signal integrity. Their low dynamic resistance with a low clamping voltage offers remarkable protection against ESD events, meeting the requirements for high robustness and reliability in automotive network lines.

Both devices are also available in automotive AEC-Q101 qualified versions.

## Bidirectional Device



DFN1110-3A



Automotive

## Device Specification Table

No.	Device Name	Package	Type	V <sub>RWM</sub>	Capacitance V <sub>R</sub> = 5 V	ESD-Immunity Contact Discharge
1	<a href="#">VCAN33A2-HT5-G3-08</a>	DFN1110-3A	Commercial	33 V	< 6 pF	20 kV
2	<a href="#">VCAN33A2-HT5HG3-08</a>		AEC-Q101			
3	<a href="#">VCAN36A2-HT5-G3-08</a>		Commercial	36 V	< 6 pF	20 kV
4	<a href="#">VCAN36A2-HT5HG3-08</a>		AEC-Q101			



The DNA of tech.™



## Features

- Small DFN1110-3A package
- 2-line ESD protection
- Working range of  $\pm 33$  V or  $\pm 36$  V
- Low leakage current  $I_R$  of  $< 0.05$   $\mu$ A
- Low load capacitance  $C_D < 6$  pF at  $V_R = 5$  V (max.)
- ESD immunity in accordance with IEC 61000-4-2
  - $\pm 20$  kV contact discharge
  - $\pm 20$  kV air discharge
- ESD capability according to AEC-Q101:
  - Human body model: class H3B:  $> 8$  kV
- e3 - pins sidewall plated with tin (Sn)
- AEC-Q101 qualified versions available
- Automated optical inspection (AOI) capable

## Applications

- For automotive CAN-FD bus applications and low / high speed automotive network lines

## Samples

Request samples directly on [www.vishay.com](http://www.vishay.com)

### Contact Information

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