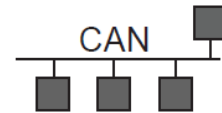
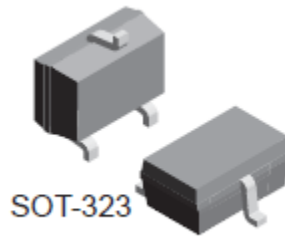
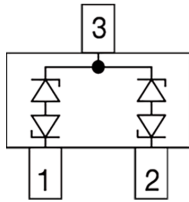


New ESD Protection Diodes in Small SOT-323 Package for CAN-Bus Applications

Vishay has expanded its portfolio of VCAN ESD protection diodes in the compact SOT-323 package. The new VCAN33C2-03G and VCAN36C2-03G are bidirectional, low capacitance dual-line devices for CAN-FD and Flex-bus applications. The diodes offer high thermal performance (up to +175 °C) and high isolation with low leakage current and small capacitance within the specified working range.

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

Bidirectional Device



Automotive

Device Specification Table

No.	Device Name	Package	Type	V _{RWM}	Capacitance V _R = 5 V	ESD Immunity (Contact Discharge)
1	VCAN33C2-03G-E3	SOT-323	Commercial	33 V	< 5.2 pF	30 kV
2	VCAN33C2-03GHE3		AEC-Q101			
3	VCAN36C2-03G-E3		Commercial	36 V	< 4.6 pF	27 kV
4	VCAN36C2-03GHE3		AEC-Q101			



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Features

- Small SOT-323 package
- Bidirectional 2-line ESD protection
- Working range of $\pm 33\text{ V}$ or $\pm 36\text{ V}$
- Low leakage current I_R of $< 0.05\ \mu\text{A}$
- Low load capacitance $C_D < 5.2\ \text{pF}$ at $V_R = 5\ \text{V}$ (max.) - **VCAN33C2-03G**
- Low load capacitance $C_D < 4.6\ \text{pF}$ at $V_R = 5\ \text{V}$ (max.) - **VCAN36C2-03G**
- ESD immunity in accordance with IEC 61000-4-2
 - $\pm 27\ \text{kV}$ to $\pm 30\ \text{kV}$ contact discharge
 - $\pm 27\ \text{kV}$ to $\pm 30\ \text{kV}$ air discharge
- e3 - Sn, tin-plated pins
- AEC-Q101 qualified versions available

Applications

- For CAN-FD and Flex-bus applications

Samples

Available at Vishay Sample Service Center (VSSC)

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