

Automotive Uni & Bi-directional ESD Protection Diode

The ultra-small ESD diodes are ideal for safeguarding sensitive electronics in high-density applications like portable medical devices, smart phones, and POS.

Being AEC-Q101 qualified, the TESDAx Series delivers robust protection to IEC 61000-4-2 (ESD $\pm 30\text{kV}$ air/contact), IEC 61000-4-4 (EFT 40A), and IEC 61000-4-5 (Lightning 5A). Their ultra-small packages are crucial for saving board space, ensuring reliability and superior protection for compact and high-density designs.



Official Website



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LinkedIn

For more information: marketing@ts.com.tw

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PACKAGE

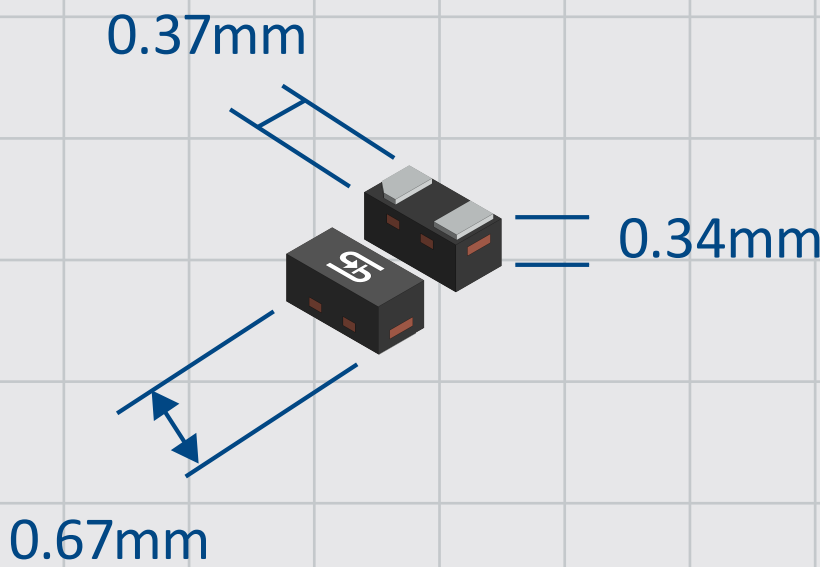
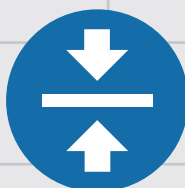


Figure 1: Package and circuit diagram

FEATURES



AUTOMOTIVE
QUALIFIED
AEC-Q101



ULTRA SMALL PACKAGES
SAVE BOARD SPACE



ESD PROTECTION TO
IEC 61000-4-2 / 4-4 / 4-5

SPECIFICATION

| Part number | Configuration | V _{WM} (V) | C _J (pF) Max. | ESD Robustness (IEC61000-4-2) (kV) | IPPM at tp =8/20μs (A) |
|-----------------|-----------------|------------------------|--------------------------------|---|---------------------------|
| TESDA5V0U40P1Q0 | Uni-directional | 5 | 40 | 30 | 5A |
| TESDA5V0B20P1Q0 | Bi-directional | | 20 | | |
| TESDA6V0U40P1Q0 | Uni-directional | 6 | 40 | | |
| TESDA6V0B20P1Q0 | Bi-directional | | 20 | | |

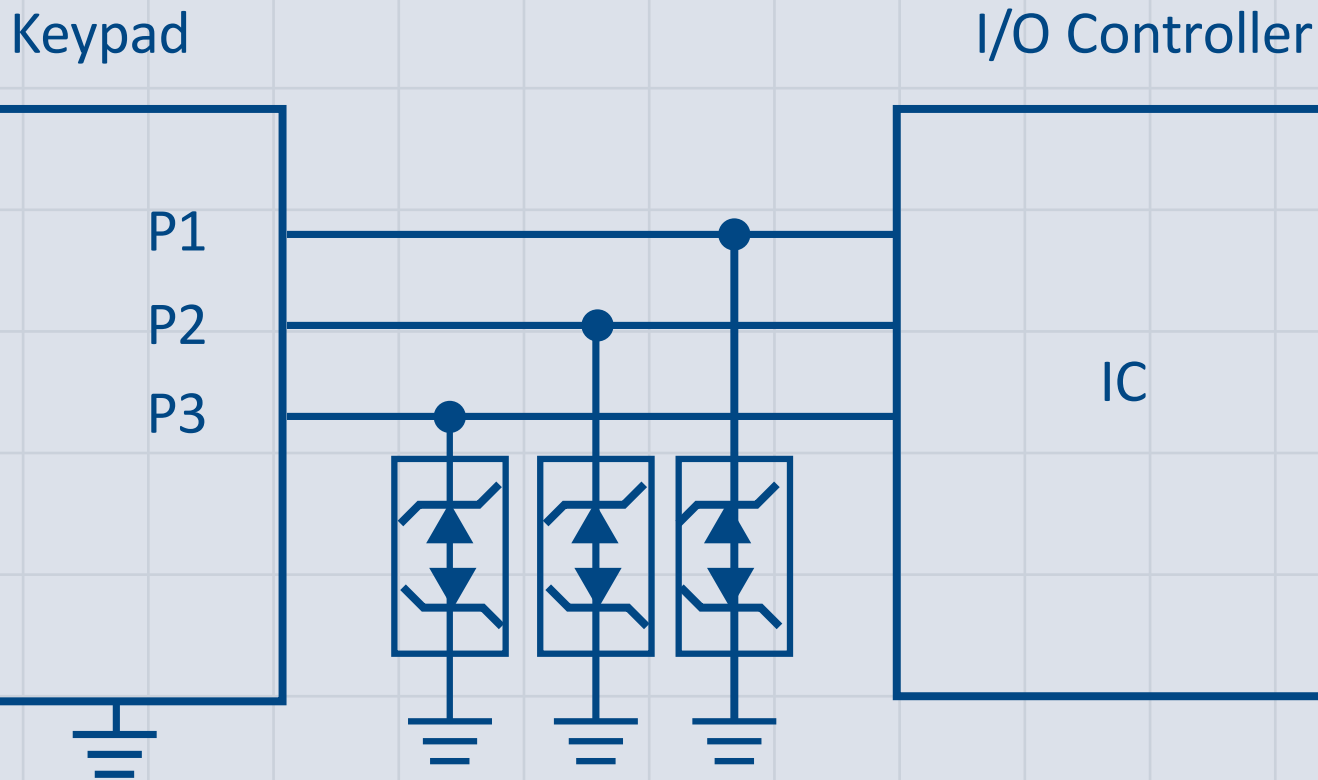
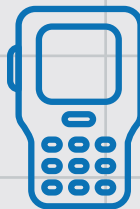


Figure 2: TESDAx series for typical application

APPLICATIONS



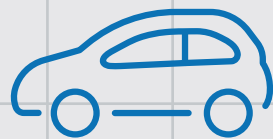
PORTABLE
MEDICAL DEVICES



MOBILE
POS



SMART PHONES



AUTOMOTIVE



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