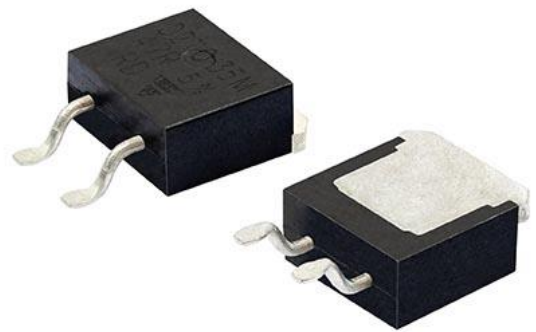


D2TO35M Automotive Grade, AEC-Q200 Qualified Surface-Mount Thick Film Power Resistor Offers Power Dissipation of 35 W, Multi-Pulse Capabilities in TO-263 (D2PAK) Package

Product Benefits:

- AEC-Q200 qualified
- Compact TO-263 (D2PAK) package
- High power dissipation of 35 W at 25 °C
- Low maximum drift of 2 % after 1000 pulses and 5 % after 100 000 pulses
- Withstands 1000 cycles of rapid change of temperature (RCT) testing
- 1000 hour load life
- Non-inductive
- Wide resistance range from 10 Ω to 10 k Ω
- High temperature operation to +175 °C
- RoHS-compliant
- Solder reflow secure at 270 °C/10 s



Market Applications:

- Pulse surge protection

The News:

Vishay Intertechnology introduces a new Automotive Grade surface-mount thick film power resistor in the TO-263 (D2PAK) package. For automotive applications, the AEC-Q200 qualified Vishay Sfernice D2TO35M combines multi-pulse capabilities with high power dissipation of 35 W at 25 °C.

- Compared to standard devices in the TO-263 (D2PAK) package, the D2TO35M provides higher power dissipation and reliability for multiple and repetitive pulse use

The Key Specifications:

- Package: TO-263
- Resistance range: 10 Ω to 10 k Ω
- Tolerance: ± 2 %, ± 5 %, and ± 10 %
- Rated power at 25 °C: 35 W
- TCR: $\pm 150 \pm$ ppm/°C
- Thermal resistance: 4.28 °C/W
- Operating temperature range: -55 °C to +175 °C
- Turn-on time: 500 ms
- Turn-off time: 11 s
- Pulse energy: 18.9 J



NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Resistors / November 2024



Availability:

Samples and production quantities of the D2TO35M are available now, with a standard lead time of 10 weeks, depending on quantities ordered.

To access the product datasheet on the Vishay Website, go to
<http://www.vishay.com/ppg?51098> (D2TO35M)

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