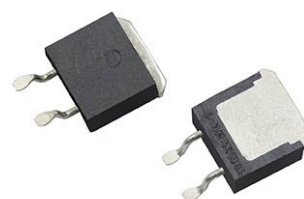


Automotive Grade Top-Side Cooling Mount Thick Film Power Resistor in Compact TO-263 (D²PAK) Package Delivers 35 W Power Dissipation While Enhancing Thermal Performance and Saving Space

Product Benefits:

- AEC-Q200 qualified
- Top-side cooling mount
- High power dissipation of 35 W at 25 °C
- Surface-mount TO-263 (D²PAK) package
- Wide resistance range from 4.7 Ω to 550 k Ω
- High temperature operation to +175 °C
- Non-inductive design
- Resistor isolated from metal tab
- Solder reflow secure at 270 °C/10 s
- RoHS-compliant



Market Applications:

- Power and thermal management in automotive electronics

The News:

Vishay Intertechnology introduces a new Automotive Grade top-side cooling mount thick film power resistor. Designed for automotive applications, the Vishay Sfernice D2TO35S improves thermal performance and reduces board space requirements, while delivering high power dissipation of 35 W at 25 °C in the surface-mount TO-263 (D²PAK) package.

- As thermal constraints increasingly become the primary system design limitation, many power components are transitioning from PCB-based cooling to top-side cooled architectures. By transferring heat directly to a heatsink, the D2TO35S enables up to nine times greater power dissipation than standard PCB-mounted devices when paired with an appropriate heatsink
- The device's compact, surface-mount design allows designers to increase power dissipation within the same footprint or provide the same functionality in a smaller footprint, while lowering PCB temperatures, reducing thermal stress on neighboring components, and improving overall system reliability.
- The D2TO35S' non-inductive design enables improved signal integrity and power handling in fast transient conditions

The Key Specifications:

Part number	D2TO35S
Package	TO-263 (D ² PAK)
Rated power at 25 °C (W)	35
Resistance range (Ω)	4.7 to 550 k
Resistance tolerances (%)	± 1 , ± 2 , ± 5 , ± 10
TCR (ppm/°C)	± 150 , ± 250 , ± 700 , ± 1100



NEW PRODUCT INFORMATION

Product Group: Vishay Sfernice, Thick Film / September 2026



Limiting element voltage (V)	500
Thermal resistance (°C/W)	4.28
Operating temperature range (°C)	-55 to +175

Availability:

Samples and production quantities of the D2TO35S are available now with lead times of fourteen weeks. Pricing for U.S. delivery only starts at \$2.150 per piece in 10 000-piece quantities at a 5 % tolerance.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?51112> (D2TO35S)

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