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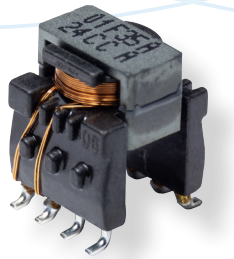
NEW PRODUCT RELEASE

MAGNETICS



Bourns Releases AEC-Q200 Compliant, Automotive Grade 1 Watt Flyback Transformer

Model HVMA01F35A-ST10S

Riverside, California – May 16, 2025 – Bourns Custom Magnetics Product Line is releasing the new Model HVMA01F35A-ST10S Flyback Transformer, expanding its offering of extended creepage transformers. This new transformer is AEC-Q200 compliant, automotive grade and manufactured on a fully automated production line.

The Model HVMA01F35A-ST10S Transformer is designed with a 10 mm creepage distance for a 900 V working voltage that is ideal for new EV applications that require high isolation voltage. Typical automotive applications include transistor gate drive power, battery management circuit power, and hybrid vehicle isolated power across separate voltage systems. The transformer has a wide operating temperature range from 40 °C to +125 °C for Class F operation. The high creepage, SMT package has a unique small footprint for a high working voltage.

The Model HVMA01F35A-ST10S is designed with a switching frequency of 100 kHz to 400 kHz and will provide an output power of up to 1 watt. This transformer can be used with many flyback controller ICs, with either fixed frequency or variable frequency. Designs can be customized for other output voltages and applications. Please contact Bourns for additional technical support and IC compatibility.

Model	Output Power (W)	Primary Inductance @100 kHz / 1 V	Creepage Distance (mm)	Rated Working Voltage (V)	Operating Temperature (°C)
HVMA01F35A-ST10S	1	35 µH ±15 %	10	900	-40 to +125

Please visit the Bourns website at bourns.com/products/magnetic-products/transformers-power for additional product details, and check out our Magnetics Technical Library for application notes, white papers and brochures. Feel free to contact Bourns Customer Service/Inside Sales if you have any questions.

Features

- 1 watt flyback transformer
- 100 to 400 kHz switching frequency
- 900 V working voltage up to 5000 m
- SMT transformer with 10 mm min. creepage
- Basic insulation per IEC 61558-2 & IEC 60664-1
- Operating temperature: -40 °C to +125 °C
- AEC-Q200 compliant
- RoHS compliant*
- AUTOMOTIVE GRADE

Applications

- Transistor Gate Drive Power
- Inverter Circuits
- Battery Management Systems
- Motor Drives
- Power Delivery

* *RoHS Directive 2015/863, Mar 31, 2015 and Annex.*

IC25055

Additional Information

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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