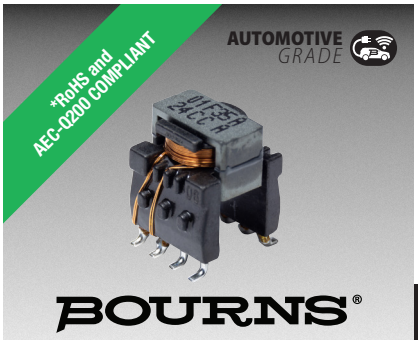


Features

- 1 Watt flyback transformer
- 100 to 400 kHz switching frequency
- High working voltage of 800 to 1000 V up to 5000 m
- SMT transformer with 10 mm creepage
- Basic insulation per IEC 61558-2 & IEC 60664-1
- Operating temperature: -40 °C to +125 °C
- AEC-Q200 compliant & automotive grade

Applications

- Transistor gate drive power
- Inverter circuits
- Battery Management Systems
- Motor drives
- Power delivery

HVMA01F35A-ST10S Flyback Transformer

General Specifications

Operating Temperature (including self-temperature rise) ..... -40 °C to +125 °C
Level of Insulation ..... Basic Insulation
Creepage Distance (Primary to Secondary) ..... 10 mm min.
Clearance Distance (Primary to Secondary) ..... 6 mm min.
Storage Temperature ..... -40 °C to +85 °C
Moisture Sensitivity Level 1

Additional Information

Click these links for more information:

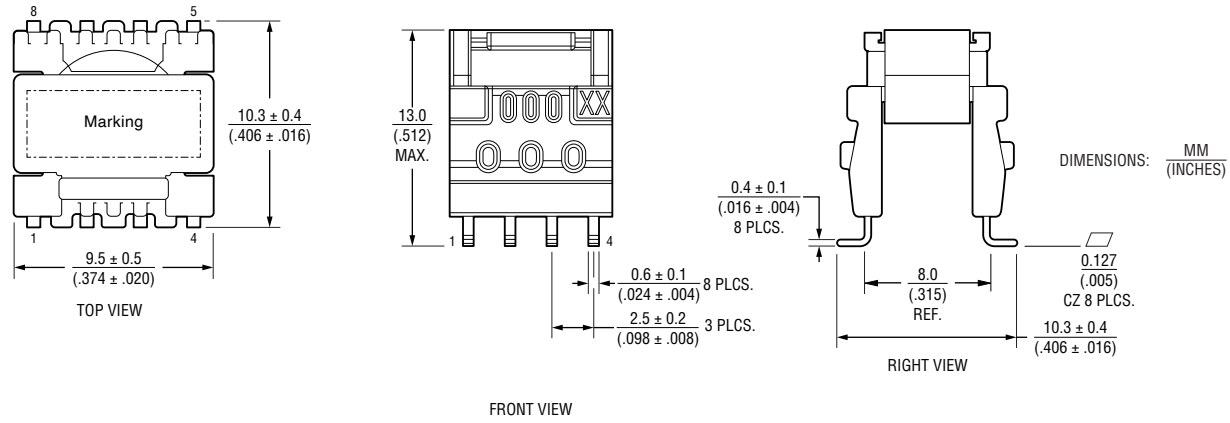
PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Specifications @ 25 °C

Bourns Part Number	Primary Inductance @ 100 kHz / 1 V ±15 % (μH)		Leakage Inductance[1] (μH)		Turns Ratio		DCR max. (Ω)		Hi-Pot: 2 sec. / 1 mA	Working Voltage
HVMA01F35A-ST10S	(1-2)	35	(1-2)	1.1 μH max.	(1-2) : (5-6) : (7-8)	1 : 1 : 1	(1-2)	1.0	4000 VAC	900
							(5-6)	1.4		
							(7-8)	1.0		

NOTE: (1) Leakage inductance measured (1-2), shorted all other pins @ 100 kHz, 1 V.

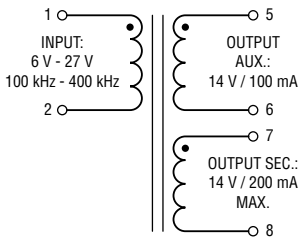
Product Dimensions



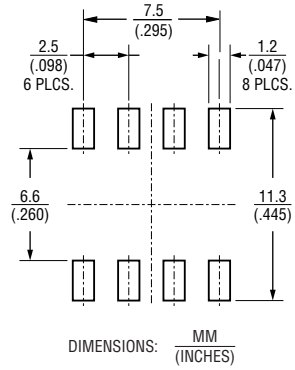
Materials

Bobbin ..... Phenolic
Wire ..... Fully Insulated Copper
Core ..... Ferrite
Glue ..... Epoxy

Electrical Schematic



Recommended Layout

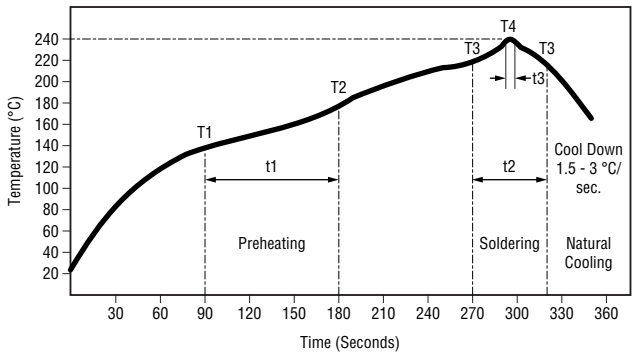


WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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Users should verify actual device performance in their specific applications.
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Lead-Free Soldering Profile



Preheating			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
140 °C	180 °C	60-120 sec.	220 °C	40-70 sec.	240-250 °C	5 sec.

How to Order

HVM A 01 F 35 A - ST 10 S

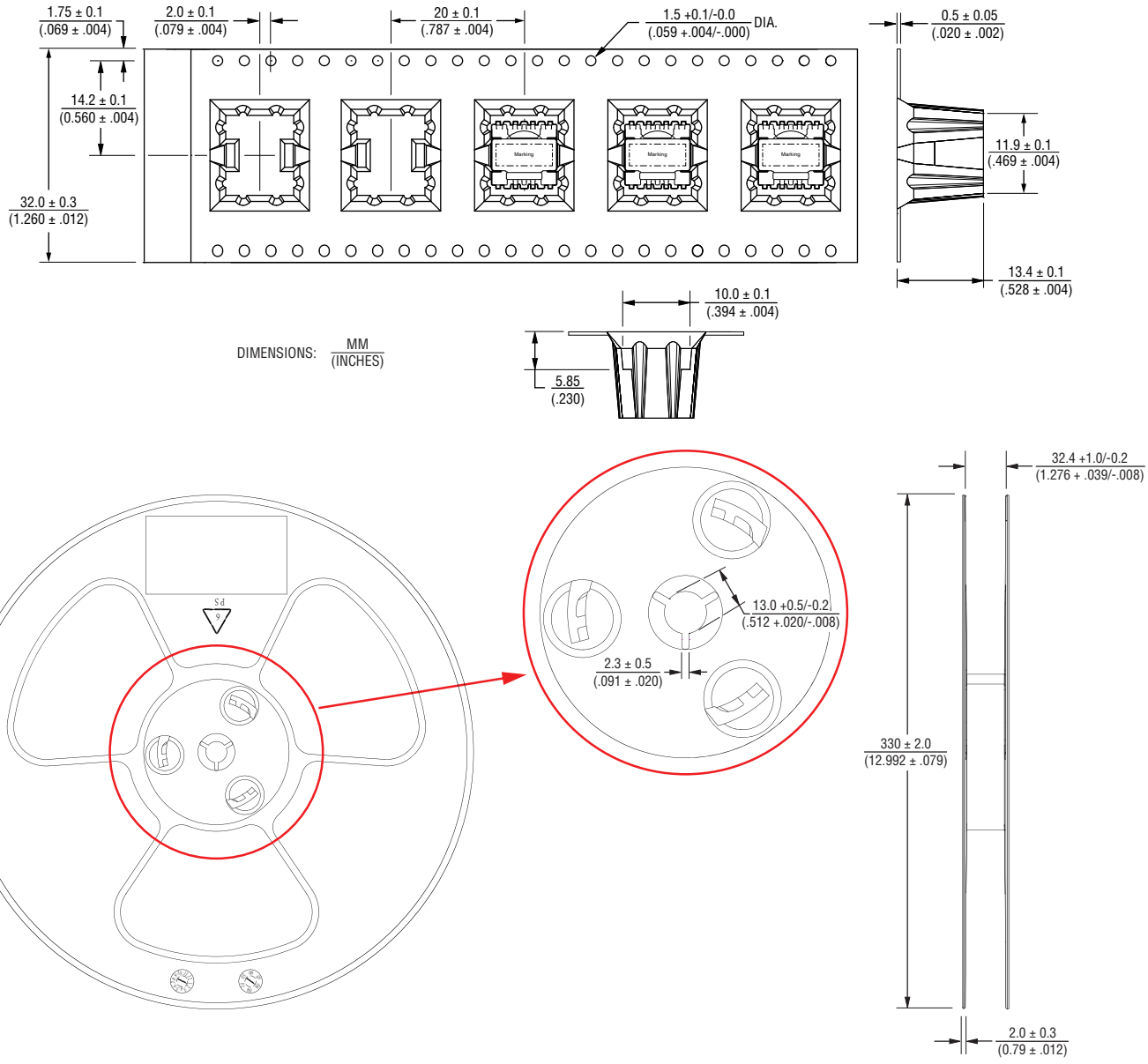
- Model
  - HVM = Flyback Transformer
- Compliancy
  - A = Automotive Grade
- Power Rating
  - 01 = 1 W
- Topology Type
  - F = Flyback
- Inductance Value
  - 35 = 35 μH
- Series
- Size Profile
  - ST = Standard ER9.5
- Creepage
  - 10 = 10 mm min.
- PCB Type
  - S = SMD

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Packaging Specifications

230 pcs./reel, 5 reels/carton



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
Europe: Tel: +36 88 885 877 • Email: eurocus@bourns.com
Mexico: Tel: +52 614 478 0400 • Email: mexicus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
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