

## Features

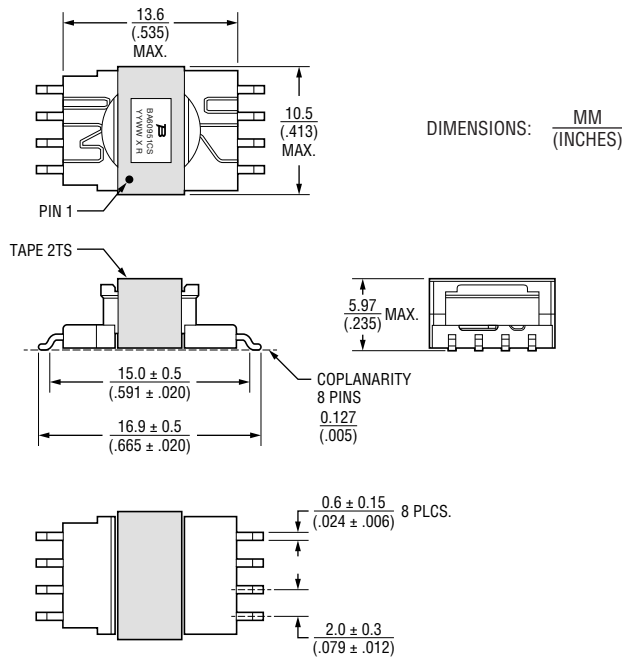
- Isolated flyback transformer
- Designed for isolated power supplies operating at 120 kHz
- Working voltage: 800 V
- Basic insulation
- 2.25 watts of output power
- RoHS compliant\*
- AEC-Q200 compliant

## BA60951CS – Flyback Transformer

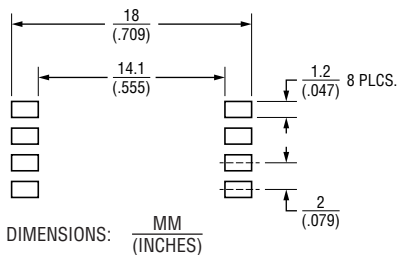
### Electrical Specifications @ 25 °C

Bourns Part Number	Primary Inductance @ 250 kHz / 0.1 V ±10 % (µH)	Leakage Inductance @ 250 kHz / 0.1 V (All Sec. Pins Shorted) max. (µH)	Turns Ratio		DCR (Ω) max.			Isat (A)
	L (1-2)	Lk (1-3)	P(1-2) : A(3-4)	P(1-2) : S(8-6)	Pri (1-2)	Aux (3-4)	Sec (8-6)	L (1-2)
BA60951CS	25	0.6	1.27	0.77	0.55	0.55	0.66	1.4

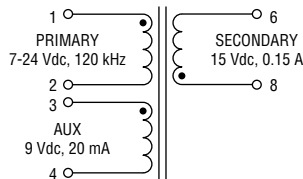
### Product Dimensions



### Recommended Layout



### Electrical Schematic



### Additional Information

Click these links for more information:



### General Specifications

Primary Input Voltage..... 7-24 V  
 Auxiliary Voltage ..... 9 V, 20 mA  
 Secondary Voltage ..... 15 V, 150 mA  
 Primary Rated Current.....1.4 A  
 Frequency.....120 kHz  
 Hi-Pot Prim/Sec ..... 2500 Vac / 60 s  
 Operating Temperature  
 ..... -40 °C to +155 °C  
 Max. Ambient Temperature..... 125 °C  
 Storage Temperature  
 ..... -40 °C to +155 °C  
 Compliant to ..... IEC 61558  
 Creepage/Clearance Distance  
 of Primary to Secondary.....8 mm  
 Level of Insulation  
 ... Basic for a working voltage of 800 V  
 Material Group III Pollution degree 2  
 Moisture Sensitivity Level..... 1

### Materials

Core..... Ferrite  
 Wire .... Enameled/triple-insulated copper  
 Terminal Finish ..... Sn  
 Packaging..... 550 pcs. per 13-inch reel



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

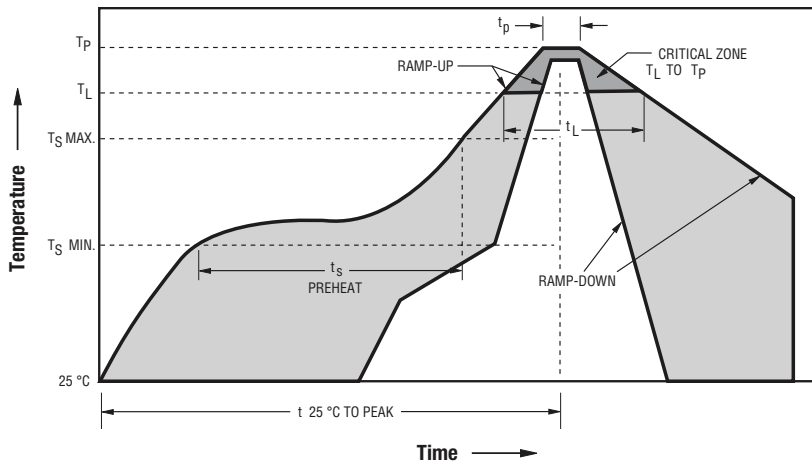
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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# BA60951CS – Flyback Transformer

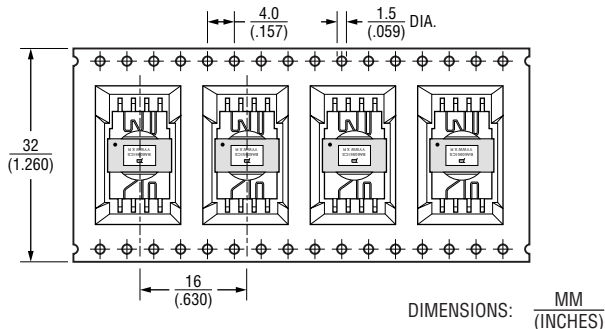
# BOURNS®

## Soldering Profile



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ( $T_{s_{max}}$ to $T_p$ )	3 °C / second max.
PREHEAT: Temperature Min. ( $T_{s_{min}}$ ) Temperature Max. ( $T_{s_{max}}$ ) Time ( $T_{s_{min}}$ to $T_{s_{max}}$ ) ( $t_s$ )	150 °C 200 °C 60~180 seconds
TIME MAINTAINED ABOVE: Temperature ( $T_L$ ) Time ( $t_L$ )	217 °C 60~150 seconds
Peak Temperature ( $T_p$ )	245-250 °C
Time within 5 °C of Actual Peak Temperature ( $t_p$ )	20~40 seconds
Ramp-Down Rate	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

## Packaging Specifications



## How to Order

**BA 60951C S**

Automotive Grade \_\_\_\_\_

Model Number \_\_\_\_\_

Surface Mount \_\_\_\_\_

## Typical Part Marking

<b>B</b>	← MANUFACTURER'S TRADEMARK
BA60951CS	← MODEL NUMBER
YYWW X R	← DATE CODE
	YY: YEAR
	WW: WEEK
	X: DAY
	A: MONDAY
	B: TUESDAY
	C: WEDNESDAY
	D: THURSDAY
	E: FRIDAY
	F: SATURDAY
	G: SUNDAY
	R: REVISION

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