

Features

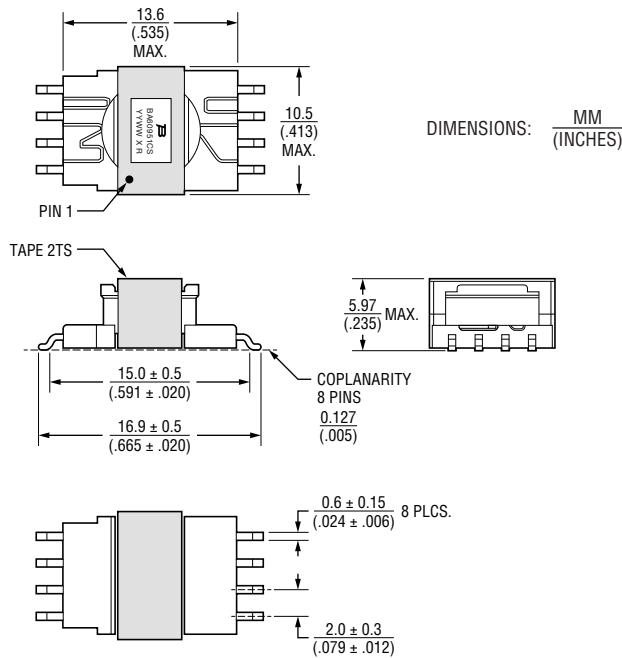
- Isolated flyback transformer
- Designed for isolated power supplies operating at 120 kHz
- Working voltage: 800 V
- Basic insulation
- 2.25 watts of output power
- RoHS compliant*
- AEC-Q200 compliant

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



Additional Information

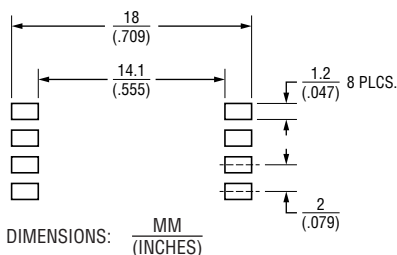
Click these links for more information:



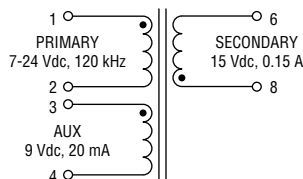
General Specifications

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

Recommended Layout



Electrical Schematic



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

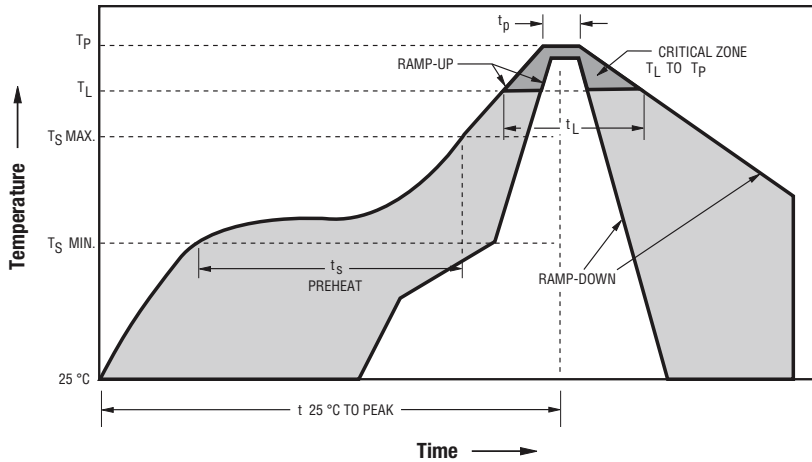
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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BA60951CS – Flyback Transformer

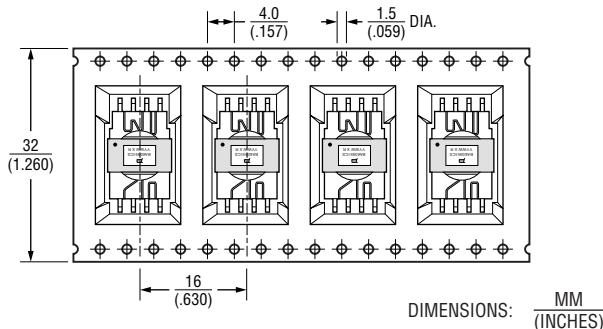
BOURNS®

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	← 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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REV. 03/23

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