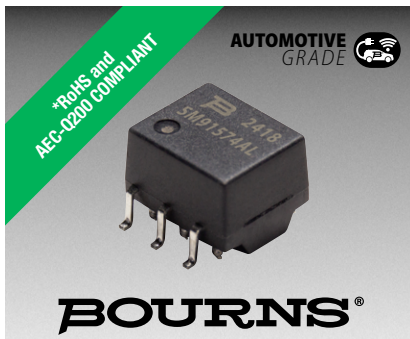




Features

- Pin auto-termination
- Working voltage: 1000 VDC
- Hi-Pot: 3000 VAC, 1 mA, 60 sec.
- Single channel with integrated choke
- Developed for use with Analog Device's LTC6804-1/681X, NXP's MC33771/ 33772 and TI's BQ79616
- Functional insulation
- AEC-Q200 compliant
- RoHS compliant*

SM91574AL BMS Transformer

Additional Information

Click these links for more information:



Electrical Specifications @ 25 °C

Inductance (100 kHz / 0.1 V)
(-40 °C to +125 °C)..... 300 μ H min.

Leakage Inductance
(1-3) with (6-4) shorted:..... 0.5 μ H max.

DCR
1-3..... 0.6 Ω max.
4-6..... 1.2 Ω max.

C_{ww}
1-6..... 25 pF max.

Turns Ratio..... 1:1 $\pm$ 2 %

Insertion Loss (1-3)-(6-4)
4 MHz -0.3 dB max.

Return Loss (1-3)-(6-4)
4 MHz -20 dB min.

Hi-Pot (1 mA, 60 S)..... 3000 VAC

Common mode rejection ratio (1-3)-(6-4):
1~100 MHz -35dB min.
100~200 MHz -20dB min.

Operating Temperature Range:
..... -40 °C to +125 °C

Storage Temperature Range:
..... -25 °C to +85 °C

Moisture Sensitivity Level 1

Packaging Specification

Tape & Reel..... 800 pcs. per 13-inch reel

How To Order

SM91574 A L - E

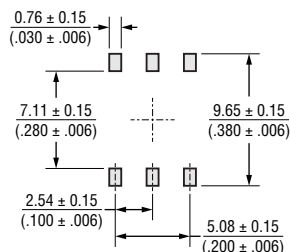
Model _____

AEC-Q200 Compliancy Designator _____

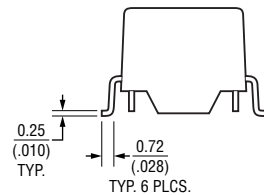
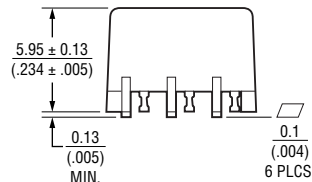
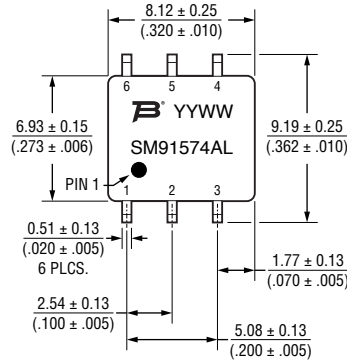
Termination _____
L = Tin (RoHS Compliant)

Packaging _____
E = Tape & Reel

Recommended Layout

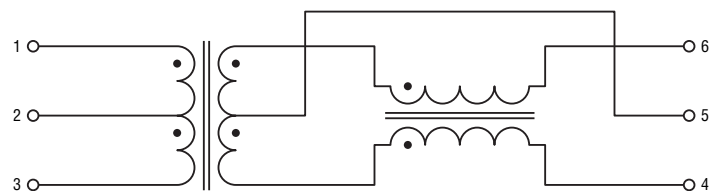


Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Electric Schematic



• same polarity

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

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

Specifications are subject to change without notice.

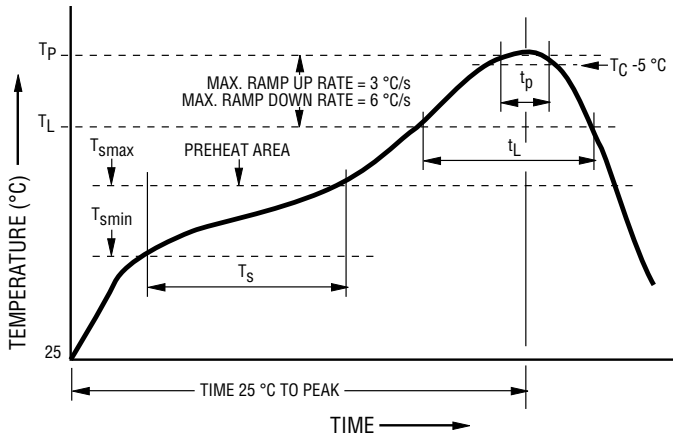
Users should verify actual device performance in their specific applications.

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SM91574AL BMS Transformer

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Solder Reflow Recommendations



Profile Feature	Pb-Free Assembly
Preheat / Soak: Temperature Min. (T_{smin}) Temperature Max. (T_{smax}) Time (t_s) from (T_{smin} to T_{smax})	150 °C 200 °C 60~120 seconds
Ramp Up Rate (T_L to T_P)	3 °C / second max.
Liquidous Temperature (T_L) Time (t_L) maintained above T_L	217 °C 60~150 seconds
Peak Package Body Temperature (T_P)	$T_P \leq T_C$ (see table below)
Time (t_p)* within 5 °C of the specified classification temperature (T_C)	< 30 seconds*
Ramp Down Rate (T_P to T_L)	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

*Tolerance for peak profile temperature (T_P) is defined as a supplier minimum and a user maximum.

Pb-Free Process Classification Temperatures (T_C)

Package Thickness	Volume mm ³ < 350	Volume mm ³ 350 - 2000	Volume mm ³ > 2000
< 1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
> 2.5 mm	250 °C	245 °C	245 °C

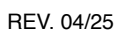
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Specifications and tolerances comply with EIA-481 requirements.



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