

Features

- Working voltage up to 1500 VDC
- Hi-Pot: 6400 VDC, 1 mA, 60 sec.
- Developed for use with NXP model 33771C series and Analog Device's model AD1818 and LTC6804/681X series
- Design construction: Reinforced insulation between primary and secondary per IEC 62477-1, IEC 60664-1 & IEC 62368-1
- EN recognized: EN No. 24SLCS11028 C0314 per EN 62368-1.
- UL recognized per UL 62368-1, File No. E515965
- Creepage distance >16.6 mm, pollution degree 2, material group CTI I
- Clearance distance >16.6 mm, Overvoltage Category III
- RoHS compliant* and AEC-Q200 compliant

SM91534AL BMS Transformer

Additional Information

Click these links for more information:











CONTACT

General Specifications

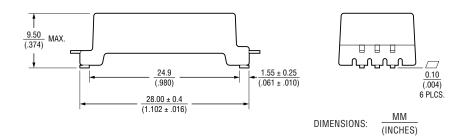
OCL (100 kHz / 0.1 V)
$(-40 ^{\circ}\text{C} \sim +125 ^{\circ}\text{C})150 \mu\text{H min}.$
Leakage Inductance (100 kHz/0.1 V)
0.6 µH max.
DCR
Transformer Side 0.5Ω max.
CM Choke Side 0.6 Ω max.
Turns Ratio 1:1 ± 2 %
Insertion Loss:
4 MHz1.0 dB max.
Return Loss (Z out = 100 Ω)
4 MHz:20 dB min.
Common Mode Rejection Ratio
1~100 MHz30 dB min.
Hi-pot (1 mA, 60 S)6400 VDC
Working Voltageup to 1500 VDC
Partial Discharge Level
1500 VAC, 50 Hz
Impulse Voltage 12 kV, 1.2/50 μs
Operation temperature
- 40 °C to +125 °C
Storage Temperature
25 °C to +85 °C
Moisture Sensitivity Level1
•
ESD Classification (HBM)N/A

Packaging Specification

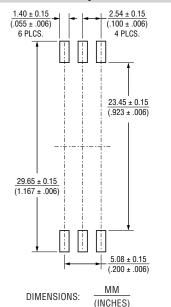
Tape & Reel..... 300 pcs. per 13-inch reel

Product Dimensions

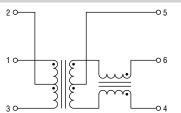




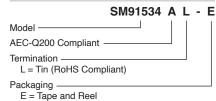
Recommended Layout



Electric Schematic



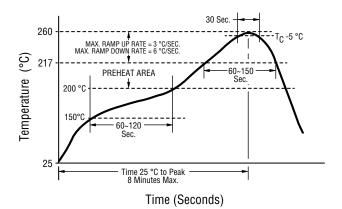
How To Order





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

Solder Profile



REFLOW TIMES: 3 TIMES MAX.

Profile Feature	Pb Free Assembly	
Preheat - 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 (Tp)	T _p ≤ T _c (see table below)	
Time within 5 °C of Actual Peak Temperature (t _p)	30 seconds	
Ramp-Down Rate (T _p to T _L)	6 °C/second max.	
Time 25 °C to Peak Temperature	8 minutes max.	

Pb-free Process Classification Temperatures (Tc)

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 ~ 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Refer to IPC/JEDEC J-STD-020

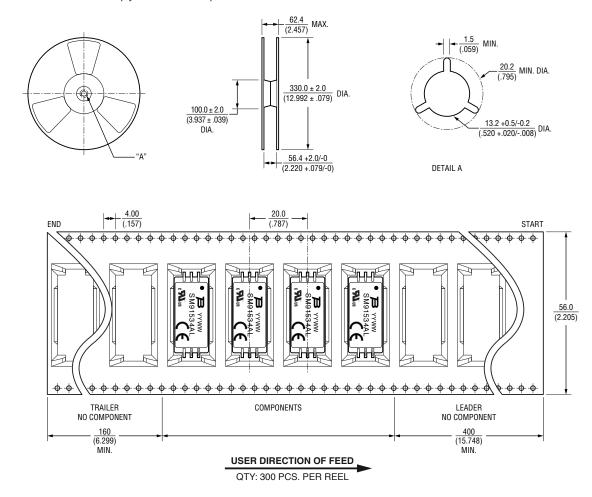
This product has been tested under this reflow condition. Deviations from this, especially higher temperature or longer durations, could impact performance.

SM91534AL BMS Transformer

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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

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