Automotive Wide Vin 30W Front-End Power Reference Design for 12V Car Battery

Project Title: Designed for:

Public Release

Assembly Variant: 001

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Version control disabled

SVN Rev:

TIDA-01179

Number:

Rev:

E1

TID #: 01179

Orderable: N/A

Revision History

Rev | Notes | Approved by | ECN # | Approved Date
--- | --- | --- | --- | ---
N/A | N/A | N/A | N/A | N/A

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Option 1

Redundant Power Supply

+12V

Redundant Power Supply

Option 2

+15V

EMI FILTER

LM5118-Q1 (Buck-Boost Converter)

EMI FILTER

TPS54540-Q1 (Buck Converter)

12V Battery

TVS Diode

LM74610-Q1 (Reverse Polarity Protection)
Variant/Label Table

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<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
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<td>001</td>
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Assembly Notes:

ZZ1: These assembly notes are for PCB labels only.

ZZ2: These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3: These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4: These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.
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