Automotive Electronics
Product Information
CJ960 – 8fold Low Side Power Switch

Customer benefits:
- 8-channel power stage
- Flexible control concept
- Enhanced diagnosis concept

Features:

Two control modes
- MSC: Synchronous control of all outputs on serial line. Supported by major μC suppliers.
- SPI/parallel: Control by SPI (OUT1...8) or dedicated input (OUT1...6)

Multiple safety features
- Complete shutdown by RESET pin
- Permanent monitoring of MSC, shutdown when communication stops
- Complete Power Stage Disable by ABE pin
- Separate shutdown for OUT1...4

Full diagnostic functions
- Short circuit to battery
- Short circuit to ground
- Open Load
- Overtemperature warning
- Choice between shutdown and current limitation in case of overcurrent

Package
- TQFP64 with Exposed Pad

Power Stages

<table>
<thead>
<tr>
<th>Parameter</th>
<th>unit</th>
<th>Out 1..4</th>
<th>Out 5..6</th>
<th>Out 7..8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ron (25°C)</td>
<td>mΩ</td>
<td>230</td>
<td>700</td>
<td>550</td>
</tr>
<tr>
<td>I_{out} (nominal)</td>
<td>A</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>I_{out} (max)</td>
<td>A</td>
<td>6</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Clamping energy</td>
<td>mJ</td>
<td>9</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Clamping voltage</td>
<td>V</td>
<td>55</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>Reverse current I_{rev}</td>
<td>A</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Configurable slew rate</td>
<td>x</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Output control modes:

MSC Mode:

SPI Mode: