Features
- VCC/2 compatible input
- Junction overtemperature protection
- Case overtemperature protection for thermal independence of the channels
- Current limitation
- Shorted load protection
- Undervoltage shut-down
- Protection against loss of ground
- Very low stand-by current
- Compliance to 61000-4-4 IEC test up to 4 kV

Description
The VN808-E is a monolithic device designed in STMicroelectronics VIPower M0-3 technology, intended for driving any kind of load with one side connected to ground.

Active current limitation combined with thermal shutdown and automatic restart, protect the device against overload. In overload condition, channel turns OFF and back ON automatically so as to maintain junction temperature between TTSD and TR. If this condition makes case temperature reach TCSD, overloaded channel is turned OFF and will restart only when case temperature has decreased down to TCR (see waveform 3 on page 11). Non overloaded channels continue to operate normally. Device automatically turns OFF in case of ground pin disconnection. This device is especially suitable for industrial applications conform to IEC 61131.

Type RDS(on)
1. Per channel

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I_{out}</td>
<td>VCC</td>
<td>VN808-E</td>
</tr>
<tr>
<td>150 mΩ</td>
<td>0.7 A</td>
<td>45 V</td>
</tr>
</tbody>
</table>

PowerSO-36

www.st.com