
Double channel high-side driver with current sense analog feedback for automotive applications

Introduction

This errata sheet describes all the known functional and electrical limitations of the VND9008AJ, VIPower[®] high-side driver family.

All the topics covered in this document refer to VND9008AJ datasheet rev 2 DocID030636 (see [Section Appendix A: Document reference](#)).

1 Functional problems

1.1 Power section

Table 1. Power section

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
R_{ON}	ON-state resistance	$I_{OUT} = 6\text{ A}; T_j = 25\text{ °C}$		10		mΩ
		$I_{OUT} = 6\text{ A}; T_j = 150\text{ °C}$			22	mΩ
		$I_{OUT} = 6\text{ A}; V_{CC} = 4\text{ V}; T_j = 25\text{ °C}$			TBD	mΩ
		$I_{OUT} = 1\text{ A}; V_{CC} = 2.7\text{ V}; V_{CC}$ decreasing			190	mΩ

Note: Please to refer to "Table 5: Power section", page 9, in VND9008AJ datasheet rev 2 (see [Section Appendix A: Document reference](#)).

Description

- R_{ON} higher than target.

1.2 Protections

Table 2. Protections

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
I_{LIMH}	DC short circuit current	$V_{CC} = 13\text{ V}, T_j = 25\text{ °C}$	62	73	84	A
		$V_{CC} = 13\text{ V}, T_j = 105\text{ °C}$	50	59	68	A

Note: Please to refer to "Table 8: Protections", page 11, in VND9008AJ datasheet rev 2 (see [Section Appendix A: Document reference](#)).

Description

- I_{LIMH} lower than target.

Appendix A Document reference

- *Double channel high-side driver with Current Sense analog feedback for automotive applications* (Datasheet rev 2 DocID030636).

Revision history

Table 3. Document revision history

Date	Revision	Changes
21-Feb-2018	1	Initial release.



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