

PCN Number:	20180215001	PCN Date:	March 7, 2018
Title:	Datasheet for DRV10975, DRV10975Z		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
		<input checked="" type="checkbox"/>	EEPROM Setting

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.

TI is disabling Inductive AVS in default EEPROM.

Warning: Customers can enable Inductive AVS, but TI recommends not to enable feature, because it is not capable of preventing voltage surge in all cases.

TI is providing new typical application schematics for Z (sleep mode) device.



DRV10975, DRV10975Z

SLVSCP2C – JANUARY 2015 – REVISED FEBRUARY 2018

Changes from Revision B (December 2017) to Revision C

Page

• Added timing information for entering and exiting sleep mode and standby mode	8
• Added BEMF COMPARATOR hysteresis specification	9
• Updated <i>Start the Motor Under Different Initial Conditions</i> figure	20
• Changed the default value for register address 0x27 from 0xFC to 0xF4 in the <i>Default EEPROM Value</i> table	42
• Deleted the "TI recommends..." sentence from the description for address 0x27, bit 3	45
• Added constraints to recommended external inductor	48

Changes from Revision A (March 2017) to Revision B

Page

• Specified the drive current as continuous winding current in the <i>Features</i>	1
• Changed the $r_{DS(on)}$ maximum value from 1 Ω to 0.4 Ω and added typical value in the <i>Electrical Characteristics</i> table	7
• Added the internal SPEED pin pulldown resistance to ground parameter to the <i>Electrical Characteristics</i> table	8
• Changed the <i>Step-Down Regulator</i> section	13
• Updated the <i>Motor Phase Resistance</i> section	16
• Deleted the <i>Inductive AVS Function</i> section	36
• Changed the default value for register address 0x29 from 0xB7 to 0xB8 in the <i>Default EEPROM Value</i> table	42
• Added application information for the sleep mode device	47

The datasheet number will be changing.

Device Family	Change From:	Change To:
DRV10975, DRV10975Z	SLVSCP2A	SLVSCP2C

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/DRV10975>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):			
No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.			
Changes to product identification resulting from this PCN:			
None.			
Product Affected:			
DRV10975PWP	DRV10975PWPR	DRV10975ZPWP	DRV10975ZPWPR

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
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