


PCN Number:	20240226002.1		PCN Date:	February 27, 2024																																	
Title:	Datasheet for BQ25628E																																				
Customer Contact:	Change Management			Dept:	Quality Services																																
Proposed 1st Ship Date:	May 26, 2024																																				
Change Type:																																					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site																																
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material																																
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process																																
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site																																
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials																																
		<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process																																
Notification Details																																					
Description of Change:																																					
<p>Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below.</p>																																					
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>  <div> TEXAS INSTRUMENTS </div> </div> <div style="text-align: right;"> BQ25628E <small>SLUSFA4B – JUNE 2023 – REVISED FEBRUARY 2024</small> </div> </div>																																					
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Changes from Revision A (January 2024) to Revision B (February 2024)</th> <th style="text-align: right;">Page</th> </tr> </thead> <tbody> <tr><td>• Added IEC 62368-1 CB Certification.....</td><td style="text-align: right;">1</td></tr> <tr><td>• Changed T_{TOP_OFF} Typical and Maximum Limit.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{SAFETY_TRKCHG} Typical and Maximum Limit.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{SAFETY_PRECHG} Typical and Maximum Limit.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{SAFETY} Typical and Maximum Limit.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{BATFET_DLY} Typical Value.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{SM_EXIT} Typical and Maximum Limit.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{QON_RST} Typical and Maximum Limit.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{BATFET_RST} Typical Value.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{LP_WDT} Typical Value.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed T_{WDT} Typical Value.....</td><td style="text-align: right;">15</td></tr> <tr><td>• Changed recommended values of RT1 and RT2 in Section 8.3.5.4.2</td><td style="text-align: right;">23</td></tr> <tr><td>• Added I²C timing requirements for fast mode and fast mode plus in Section 8.5.1.....</td><td style="text-align: right;">32</td></tr> <tr><td>• Changed TOPOFF_TMR values in Charge_Control_0 Register Description, PRECHG_TMR and CHG_TMR values in Charge_Timer_Control Register Description, and WATCHDOG values in Charger_Control_1 Register Description.....</td><td style="text-align: right;">35</td></tr> <tr><td>• Updated behavior of IBAT_ADC in IBAT_ADC Register Description.....</td><td style="text-align: right;">35</td></tr> </tbody> </table>						Changes from Revision A (January 2024) to Revision B (February 2024)	Page	• Added IEC 62368-1 CB Certification.....	1	• Changed T _{TOP_OFF} Typical and Maximum Limit.....	15	• Changed T _{SAFETY_TRKCHG} Typical and Maximum Limit.....	15	• Changed T _{SAFETY_PRECHG} Typical and Maximum Limit.....	15	• Changed T _{SAFETY} Typical and Maximum Limit.....	15	• Changed T _{BATFET_DLY} Typical Value.....	15	• Changed T _{SM_EXIT} Typical and Maximum Limit.....	15	• Changed T _{QON_RST} Typical and Maximum Limit.....	15	• Changed T _{BATFET_RST} Typical Value.....	15	• Changed T _{LP_WDT} Typical Value.....	15	• Changed T _{WDT} Typical Value.....	15	• Changed recommended values of RT1 and RT2 in Section 8.3.5.4.2	23	• Added I ² C timing requirements for fast mode and fast mode plus in Section 8.5.1	32	• Changed TOPOFF_TMR values in Charge_Control_0 Register Description, PRECHG_TMR and CHG_TMR values in Charge_Timer_Control Register Description, and WATCHDOG values in Charger_Control_1 Register Description.....	35	• Updated behavior of IBAT_ADC in IBAT_ADC Register Description.....	35
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<p>The datasheet number will be changing.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Device Family</td> <td style="width: 33%;">Change From:</td> <td style="width: 33%;">Change To:</td> </tr> <tr> <td>BQ25628E</td> <td>SLUSFA4A</td> <td>SLUSFA4B</td> </tr> </table>						Device Family	Change From:	Change To:	BQ25628E	SLUSFA4A	SLUSFA4B																										
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<p>These changes may be reviewed at the datasheet links provided. http://www.ti.com/product/BQ25628E </p>																																					
Reason for Change:																																					
To accurately reflect device characteristics.																																					

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):			
Electrical specification performance changes as indicated above.			
Changes to product identification resulting from this PCN:			
None.			
Product Affected:			
BQ25628ERYKR			

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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