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PCN Numb		er:	202304	30425000.0			P	CN D	ate:	April 25, 2023	
Title	:	TPS53685 and	TPS53	536C5 Firmware change							
Cust	tomer	Contact:		PCN Manager			Ď	Dept:		Quality Services	
Change Type:											
	Asser	mbly Site			Assembly Pr	ocess			Assem	bly Materials	
□ Design			Electrical Specification				Mechanical Specification				
☐ Test Site			Packing/Shipping/Labeling				Test Process				
☐ Wafer Bump Site			☐ Wafer Bump Material				Wafer Bump Process				
		r Fab Site			Wafer Fab N	1aterials			Wafer	Fab Process	
					Part number	change					
PCN Details											
Description of Change:											
This notification is to communicate and update the Firmware for the TPS53685 and TPS536C5 devices. Affected devices are listed in the Product Affected section of this document. The FW_VERSION_INFO.PATCH_VERSION is changing from 01020500h to 01020600h.											
Additional changes include: 1. Factory default checksum updated from 0x39D8 / 0xCEB8 to 0x31D4 / 0xC6B4 (8ph / 12ph): • OCP pin factory default setting updated from push-pull to open-drain (bit 89 in reg 0xCD) Impact #1: None, it is overwritten by user config file 2. Added/enabled available features as options: disabled by default • Option to use single threshold for phase shedding / adding all phases simultaneously, consistent with SVI3 specification • Support for power stages with CS pin supplied in current instead of voltage Impact #2: None, default setting is unchanged. 3. Default value of SVI3 VID_MAX will be pulled from PMBus VOUT_MAX instead of defaulting to 00h (disabled), consistent with SVI3 VOUT_MAX_SUPPORTED • Prevents errors if SVI3 OVP_REF is changed to VID_MAX instead of VID Impact #3: None, no change in normal operation. 4. Fixed bug preventing NVM storage of Rail B phase adding / shedding threshold changes • Enables programming the load current thresholds for different phase add/shed. Impact #4: None, existing thresholds are maintained. Only relevant to customers using DPS and with non-default thresholds.											
Reason for Change:											
Improved device functionality											
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):											
None. Product Affected:											
Proc	luct A	mected:									
TPS	53685	SRSBR T	PS536C	C5R	SLR						

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

Location	E-Mail
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