

## August 19, 2014

## **Product Specifications of the Simple Power Supply ICs**

Product Specifications of the RAA23012X Series and RAA23013X Series

Item	RA	A23012X	Series	RAA23013X Series				
Product name	RAA	RAA	RAA	RAA	RAA	RAA		
	230121	230122	230123	230131	230132	230133		
Configuration	Converter On-chip of the condischarge protection,	x1 cutput pownpensation circuit, shouthermal properties and the malfunctions.	er MOSFETs, components, ort circuit rotection, and on protection	<ul> <li>Synchronous Step-Down DC/DC Converter x1</li> <li>On-chip output power MOSFETs, phase compensation components, discharge circuit, short circuit protection, thermal protection, and low-voltage malfunction protection functions</li> </ul>				
Input voltage	4.5 V to16 V							
Output voltage	3.3 V	5.0 V	Variable (0.8 V to 6.0 V)	3.3 V	5.0 V	Variable (0.8 V to 6.0 V)		
Maximum output current	3 A							
Operating frequency	1.1 MHz							
Package	1	6-pin HTS	SOP	8-pin HLSOP				
Application	industrial, OA, consumer, network equipment, smart grid, etc.							

## Product Specifications of the RAA23022X Series and RAA23023X Series

Item		RAA23022X Series			RAA23023X Series					
		RAA	RAA	RAA	RAA	RAA	RAA			
Product name		230221	230222	230223	230231	230232	230233			
Configuration		<ul> <li>Synchrono</li> </ul>	us Step-D	own DC/DC	Synchronous Step-Down DC/DC					
		Converter x2	<u> </u>		Converter x2					
		<ul><li>On-chip ou</li></ul>	tput powe	r MOSFETs,	<ul><li>On-chip output power MOSFETs,</li></ul>					
		phase compensation			phase compensation					
		components, discharge circuit,			components, discharge circuit,					
		short circuit protection, thermal			short circuit protection, thermal					
		protection, and low-voltage			protection, and low-voltage					
		malfunction protection functions			malfunction protection functions					
		<ul> <li>Battery bad</li> </ul>	ckup circui							
Input voltage		4.5 V to 16 V								
Output	Ch1	3.3 V	3.3 V	Variable	3.3 V	3.3 V	Variable			
voltage		Variable		(0.8 V to	Variable		(0.8 V to			
	Ch2	(0.8 V to	5.0 V	6.0 V)	(0.8 V to	5.0 V	6.0 V)			
		6.0 V)			6.0 V)					
Maximum		3 A								
output current										
Operating		1.1 MHz								
frequency										
Package		20-pin HTSSOP								
Application		industrial, OA, consumer, network equipment, smart grid, etc.								

## (Remarks)

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