

## **Separate Sheet**

## Main Specifications of the Six Intelligent Power Devices

	Separate Shee		fications of	the Six Intell	igent Power	<u>Devices</u>	
rameter		RAJ280002 4H11HPF	RAJ280003 4H11HPF	RAJ280004 4H11HPF	RAJ280002 4H12HPF	RAJ280003 4H12HPF	RAJ28000 4H12HPF
atures	Battery voltage [V] Load dump voltage [V]	Up to 28 Up to 40					
	On-state resistance [mΩ]*1	1.6	2.5	3.8	1.6	2.5	3.8
$\tilde{\mathbf{b}}$	On-state resistance at cranking [mΩ] *2	8	12	20	8	12	20
	Under voltage shutdown [V] *3	3.2					
	Inductive load switch-off energy dissipation single pulse [mJ]	1700	700	500	1700	700	500
D	Input I/F	Current driven Voltage driven					
	Package	TO-263 7-pin					
tection ction	Short circuit protection	<ol> <li>Immediately shutdown when over current is detected, Off latch</li> <li>Power limitation (current limitation by Tch over heating detection, auto-restart by cooling)</li> <li>Over temperature protection (Immediately shutdown when Tch over temperature is detected Off latch)</li> </ol>					
	Under voltage	Turn-off and keeps off-state during low-voltage condition, auto-restart when battery voltage recovers.					
	lock-out Over voltage protection	Active clamp operation at inductive load switch off					
agnostic nction	Output current sense	Output current proportional to output current from IS pin					
) > )	Fault signal output	Output constant current from IS pin when over current, overheating, over temperature are detected					

Note 1: Typical value at Tch = 25°C

Note 2: Maximum value under Vcc=3.2 V, Tch =  $-40^{\circ}$ C -  $150^{\circ}$ C, Pulse duration = 24 ms Note 3: Maximum value under Tch =  $-40^{\circ}$ C -  $150^{\circ}$ C

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