

Separate Sheet

Main Specifications of the Six Intelligent Power Devices

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Parameter		RAJ280002 4H11HPF	RAJ280003 4H11HPF	RAJ280004 4H11HPF	RAJ280002 4H12HPF	RAJ280003 4H12HPF	RAJ280004 4H12HPF
Features	Battery voltage [V]	Up to 28					
(1)	Load dump voltage [V]	Up to 40					
Seas	On-state resistance [mΩ]*1	1.6	2.5	3.8	1.6	2.5	3.8
	On-state resistance at cranking [mΩ] *2	8	12	20	8	12	20
Ĭ	Under voltage shutdown [V] *3	3.2					
SW?	Inductive load switch-off energy dissipation single pulse [mJ]	1700	700	500	1700	700	500
Θ	Input I/F	Current driven Voltage driven					
7	Package	TO-263 7-pin					
Protection function	Short circuit protection	1) Immediately shutdown when over current is detected, Off latch 2) Power limitation (current limitation by Tch over heating detection, auto-restart by cooling) 3) Over temperature protection (Immediately shutdown when Tch over temperature is detected Off latch)					
Φ	Under voltage lock-out	Turn-off and keeps off-state during low-voltage condition, auto-restart when battery voltage recovers.					
(Over voltage protection	Active clamp operation at inductive load switch off					
Diagnostic function	Output current sense	Output current proportional to output current from IS pin					
S	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°C - 150°C, Pulse duration = 24 ms

Note 3: Maximum value under Tch = -40°C - 150°C

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