

Separate Sheet

Main Specifications of the Six Intelligent Power Devices

Parameter	RAJ280002 4H11HPF	RAJ280003 4H11HPF	RAJ280004 4H11HPF	RAJ280002 4H12HPF	RAJ280003 4H12HPF	RAJ280004 4H12HPF	
Features	Battery voltage [V]	Up to 28					
	Load dump voltage [V]	Up to 40					
	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
	Under voltage shutdown [V] *3	3.2					
	Inductive load switch-off energy dissipation single pulse [mJ]	1700	700	500	1700	700	500
	Input I/F	Current driven			Voltage driven		
	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)					
	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					
	Fault signal output	Output constant current from IS pin when over current, overheating, over temperature are detected					

Note 1: Typical value at T_{ch} = 25°C

Note 2: Maximum value under V_{cc}=3.2 V, T_{ch} = -40°C - 150°C, Pulse duration = 24 ms

Note 3: Maximum value under T_{ch} = -40°C - 150°C

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