

April 5, 2012

Product Specifications of the New Intelligent Power Devices

Parameter		Specification														
Feature	Battery voltage [V]	Up to 28 V														
	Nominal current [A]	1–10 A														
	Load dump voltage [V]	Up to 42 V														
	On-state resistance [mΩ]	6	8	10	12	16	25	30	50	90						
	Output channel [ch]	1	1	1	1	2	1	2	2	2	2	4	2	4		
	P/N	7-pin TO252	166033	166034	166031	166032										
	12-pin PHSSOP				166023		166025		166038	166037	166027		166029			
	24-pin PHSSOP					166024		166026				166028		166030		
Protection function	Short circuit protection	<ul style="list-style-type: none"> Immediately shutdown when over current is detected, Off latch Power limitation (current limitation by Tch over heating detection, auto-restart by cooling) Over temperature protection (current limitation by Tch over temperature detection, auto-restart by cooling) 														
	Under voltage lock-out	Turn-off and keeps off-stateduring low-voltage condition, auto-restart when battery voltage recovers.														

Parameter		Specification
	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, over heating, over temperature are detected