

USB LOAD SWITCHES | E-FUSE & LOAD SWITCHES

Single Channel

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Cont. Current (Max) (A)	Short-Circuit Current (Max) (A)	Enable Logic	Fault Flag	Output Discharge	Package	Notes
MP62055	2.7	5.5	0.5	1.1	Active High	Over-Current, Active High	No	TSOT23-5	Small Package, P2P TPS2051B
MP6211	2.7	5.5	1	2.2	Active High	Over-Current, Active Low	No	SOIC8E MSOP8E	P2P TPS2051B
MP6212	2.7	5.5	1	2.2	Active Low	Over-Current, Active Low	No	SOIC8E MSOP8E	With 90μA IQ & 1.5A Current Limit
MP6212-3	2.7	5.5	1	2.2	Active Low	Over-Current, Active Low	No	MSOP8E	FLAG Output Remains Low after a Short Circuit or Thermal Current-Limit Event
MP6215	2.7	5.5	1.5	2.3	Active High	Over-Current, Active Low	No	MSOP8E	Power Distribution Switch
MP62550 MP62551	2.5	5.5	1.5	1.7	Active Low Active High	Over-Current, Active Low	No	TQFN6 (2x2) TSOT23-6	Precision Adjustable Current-Limited Power Distribution Switch 60mA, 1.7A, 88/100mΩ @100mA, 1.5μA Max Shutdown Current
MP62040	1.7	5.5	2		Active Low		No	UTQFN4	Ultra-Small Package
MP62041-1	1.7	5.5	2		Active High		Yes	UTQFN4	Ultra-Small Package
MP62161	2.7	5.5	2	2.8	Active High	Over-Current, Active Low	Yes	QFN8E MSOP8E SOIC8	Power Distribution Switch

Dual Channel

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Cont. Current (Max) (A)	Short-Circuit Current (Max) (A)	Enable Logic	Fault Flag	Output Discharge	Package	Notes
MP62351	2.7	5.5	0.5	0.75	Active High	Over-Current, Active Low	Yes	SOIC8 MSOP8	500mA/ch Current-Limit Switch, P2P LM3526
MP6231 MP6232	2.7	5.5	0.5	1.1	Active High Active Low	Over-Current, Active High	No	SOIC8 SOIC8E MSOP8E	500mA/ch Current-Limit Switch, P2P TPS2052B and P2P TPS2042B
MP62340 MP62341	2.7	5.5	1	1.5	Active Low Active High	Over-Current, Active Low	No	MSOP8E SOIC8	3.3V/5V, Current-Limit Switch, P2P TPS2066/2
MP62340-1	2.7	5.5	1	1.5	Active Low	Over-Current, Active Low	Yes	MSOP8E SOIC8	3.3V/5V, Current-Limit Switch with Output Discharge, P2P TPS 2066/2
MP6233	2.7	5.5	1.5	2.6	Active High	Over-Current, Active Low	No	MSOP8E	Current-Limit Switch

ELECTRONIC FUSES (INTEGRATED HOT-SWAP SWITCHES)

Active High Enable Logic

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Cont. Current (Max) (A)	Short-Circuit Current (Max) (A)	Fault Flag	Output Discharge	Package	Notes
MP5073	0.5	5.5	2	2		Yes	QFN12 (2x2)	Programmable Current Limit, PG, Slew Rate Control
MP5083	0.5	5.5	2	2		Yes	QFN12 (2x2)	5% Current Monitoring (From 0.6A-Full Load), PG, Slew Rate Control
MP6219	2.7	5.5	2	Prog.	Thermal Fault = Tri-State	No	SOIC8E	1A-2A Programmable Current Limit, 1.4ms Turn-On Time
MP5010B	3	18	4.2	Prog.	Thermal Fault = Tri-State	No	QFN10 (3x3)	1A-5A, 40mΩ RDS(ON), Prog. Current-Limit & Slew-Rate Control, 2.58ms Soft-Start Time
MP5013A	3	18	4.2	Prog.	Short/Over Current, Under Voltage, Over Voltage, Thermal Shutdown	No	TSOT23-8	5V, 1A-5A, 36mΩ RDS(ON), Prog. Current-Limit & Slew-Rate Control, 5A/2.8ATrip / Hold Current
MP5000A	10	18	4.2	Prog.	Thermal Fault = Tri-State	No	QFN10 (3x3)	Inrush Current Performance Improved Version of MP5000S, P2P NIS5132
MP5014A	10	13.8	5	Prog.	Short/Over Current, Under Voltage, Over Voltage, Thermal Shutdown	No	TSOT23-8	12V, 1A-5A, 36mΩ RDS(ON), Prog. Current Limit, Over-Voltage Clamp, Slew-Rate Control
MP5018	4.5	5.5	5	Prog.	Thermal Fault = Tri-State	No	QFN12 (2x3)	Reverse Current Blocking, 1A-5A, 45mΩ RDS(ON), Prog. Current Limit, OTP Latch-Off
MP5017	3	5.5	5	Prog.		Yes	QFN12 (2x3)	1A-5A Current Limit Switch, Over Voltage Clamp, Reverse Block, OTP Auto Retry
MP5077	0.5	5.5	7	7		Yes	TQFN12 (2x2)	Programmable Current Limit, Slew-Rate Control, Fast-Off Protection
MP5087	0.5	5.5	7	7		Yes	TQFN12 (2x2)	5% Current Monitoring (From 1.5A-Full Load), PG, Slew Rate Control, Fast-Off Protection
MP5087A	0.5	5.5	7	7		Yes	TQFN12 (2x2)	Programmable Current Limit, Slew Rate Control, Fast-Off Protection
MP5086	2.3	5.5	7	7		Yes	TQFN12 (2x2)	5% Current Monitoring (From 1.5A-Full Load), NTC Comparator, Open-Drain OTP Indicator,
MP5092	0.5	5.5	7.5 (x2)	7		Yes	TQFN18 (2x3)	Dual Channel, Programmable Current Limit, Slew-Rate Control, Fast-Off Protection
MP5021B	4.8	16	10	Prog.	Current Limit, Thermal Shutdown and Damaged MOSFET	Yes	QFN22 (3x5)	12V, 7mΩ RDS(ON) Hot-Swap Protection Device with Current Monitoring
MP5022A	8	16	15	Prog.	Current Limit, Thermal Shutdown and Damaged MOSFET	Yes	QFN22 (3x5)	12V, 3mΩ RDS(ON) Hot-Swap Protection Device with Current Monitoring and Controlled Ron Mode