

SEMTRANS Modules
N Channel

NEW



A: H=12, W=40.5, D=28
B: H=12, W=40.5, D=28
Mounting holes=2 dia, Fixing centres=38

- Compact design
- One Screw Mounting
- Isolated copper base plate
- Trench-gate technology
- Short internal connections and low inductance case

V _{DS} V	R _{DS(on)} Ω	I _{D cont} @ 25°C A	I _D pulsed A	Case Style	Mftrs List No.
100	0.007	80	120	A	SK85MH10
100	0.0075	80	120	A	SK115MB10
75	0.005	100	140	A	SK115MB075
75	0.0075	80	120	B	SK115MD10
100	0.005	100	140	A	SK70MD075

Mftrs. List No.	Order Code	Price Each			
		1+	5+	15+	
SK85MH10	109-5556	2,836.00	2,062.00	1,830.00	
SK115MB10	109-5555	3,773.00	2,744.00	2,434.00	
SK115MB075	109-5554	3,726.00	2,710.00	2,404.00	
SK115MD10	109-5558	3,412.00	2,481.00	2,201.00	
SK70MD075	109-5557	2,944.00	2,141.00	1,899.00	

Smart Power MOSFETs

FPF21XX IntelliMAX™ Series Load Management - SOT-23 (5-Pin)



H=1.7, W=6.7, D=7.3

The FPF2100 through FPF2107 is a family of load switches which provide full protection to systems and loads which may encounter large current conditions. These devices contain a 0.125W current-limited P-channel MOSFET which can operate over an input voltage range of 1.8-5.5V. Switch control is by a logic input (ON) capable of interfacing directly with low voltage control signals. Each part contains thermal shutdown protection which shuts off the switch to prevent damage to the part when a continuous over-current condition causes excessive heating. When the switch current reaches the current limit, the part operates in a constant-current mode to prohibit excessive currents from causing damage, instantaneous, delayed and reverse current blocking options are available.

- 1.8 to 5.5V Input Voltage Range
- Controlled Turn-On
- Current Limit Options
- Undervoltage Lockout
- Less than 1uA Shutdown Current
- Auto restart Options
- Fast Current limit Response Time
- Fault Blanking

Auto-Restart	Reverse Current Blocking	10ms shut-off delay	Current Limit mA	Mftrs List No.
●	●	●	300	FPF2100
●	●	●	300	FPF2101
●	●	●	300	FPF2102
●	●	●	300	FPF2103
●	●	●	600	FPF2104
●	●	●	600	FPF2105
●	●	●	600	FPF2106
●	●	●	600	FPF2107
●	●	●	400	FPF2108
●	●	●	200	FPF2109
●	●	●	400	FPF2110

Mftrs. List No.	Order Code	Price Each			
		1+	10+	100+	250+
FPF2100	108-4435	54.00	40.00	32.00	--
FPF2101	108-4436	50.00	37.00	30.00	23.00
FPF2102	108-4437	50.00	37.00	30.00	23.00
FPF2103	108-4438	50.00	37.00	30.00	23.00
FPF2104	108-4439	52.00	38.00	31.00	24.00
FPF2105	108-4440	52.00	38.00	31.00	24.00
FPF2106	108-4441	52.00	38.00	31.00	24.00
FPF2107	108-4442	52.00	38.00	31.00	24.00
FPF2108	108-4443	61.00	46.00	37.00	29.00
FPF2109	108-4444	59.00	45.00	36.00	28.00
FPF2110	108-4445	61.00	46.00	37.00	29.00

TrenchFET Power MOSFETs

Current sensing, temperature sensing, fast switching



D²Pak-5L

- Temperature- and current-sensing TrenchFETs
- Low thermal resistance package
- 175°C junction temperature



Current Sensing Diode

V _{ds} V	R _{DS(on)} Ω	I _D * A	I _D pulsed* A	Current Sensing Ratio	P _D @ 25°C W	I _{ar} A	E _{ar} mJ	Mftrs. List No.
30	0.013	50	50	520	83	25	31	SUM50N03-13LC
75	0.007	60	60	2370	300	60*	180	SUM60N08-07C

Temperature Sensing Diode, N Channel

V _{ds} V	R _{DS(on)} Ω	I _D * A	I _D pulsed* A	Shut-down °C	P _D @ 25°C W	I _{ar} A	E _{ar} mJ	Mftrs. List No.
40	0.0045	60	60	175	200	60*	180	SUM60N04-05LT
40	0.0055	60	60	175	200	60*	180	SUM60N04-06T
40	0.009	60	60	175	110	50	125	SUM60N04-12LT
75	0.007	60	60	175	300		180	SUM60N08-07T

Temperature Sensing Diode, P Channel

V _{ds} V	R _{DS(on)} Ω	I _D * A	I _D pulsed* A	Shut-down °C	P _D @ 25°C W	Gate Charge nC	Mftrs. List No.	
55	0.0011	60	60	175	200	60	180	SUM60P05-11LT

V _{ds} V	R _{DS(on)} Ω	I _D * A	I _D pulsed* A	Shut-down °C	P _D @ 25°C W	Gate Charge nC	Mftrs. List No.
30	0.0075	85	85	175	100	13	SUM85N03-08P

* Package limited

Mftrs. List No.	Order Code	Price Each				
		1+	25+	100+	250+	+
SUM50N03-13LC	537-3232	109.00	87.00	76.00	72.00	--
SUM60N04-05LT	537-3244	256.00	205.00	179.00	169.00	--
SUM60N04-06T	537-3256	247.00	198.00	173.00	163.00	--
SUM60N04-12LT	537-3268	157.00	125.00	110.00	103.00	--
SUM60N08-07C	537-3270	304.00	243.00	212.00	200.00	--
SUM60N08-07T	537-3281	304.00	243.00	212.00	200.00	--
SUM60P05-11LT	537-3293	256.00	205.00	179.00	169.00	--
SUM85N03-08P	537-3323	119.00	95.00	83.00	78.00	--

Fully Protected MOSFET Switches



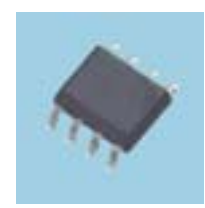
TO-220/5



TO-220



SOT-223



SO-8

- Short-circuit protected
- Over-temperature protected
- Negative clamped output
- Reverse battery protection
- Open-circuit ground protection
- V_{CC} short-circuit protection
- Low noise charge pump
- Sleep mode supply current
- 4kV ESD protected
- Diagnostic feedback

V _{clamp} V	V _{in} High min. V	V _{in} Low max. V	R _{DS(on)} Ω	Shut-down A	Shut-down °C	t _{on} /t _{off} ms	P _D @ 25°C W	Package	Mftrs. List No.
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Single Low Sided Switch

50	4	0.5	0.5	2	165	1.5	1	SOT-223	IPS041L
50	4	0.5	0.5	2	165	1.5	1	SO-8	IPS042G
50	4	0.5	0.15	5	165	1.5	2	TO-220AB	IPS021
50	4	0.5	0.15	5	165	0.0015	1	SOT-223	IPS021L
50	4	0.5	0.07	12	165	1.5	1	SO-8	IPS031G
50	4	0.5	0.06	12	165	1.5	2	TO-220AB	IPS031
50	4	0.5	0.06	12	165	1.5	1.56	TO-263 (D2-Pak)	IPS031S
50	4	0.5	0.025	35	165	0.0015	2	TO-220AB	IPS0151
50	4	0.5	0.025	35	165	0.0015	2	TO-263 (D2-Pak)	IPS0151S

Dual Low Sided Switch

50	4	0.5	0.15	5	165	1.5	1	SO-8	IPS022G
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V _{clamp} V	V _{cc} (op) min. V	V _{cc} (op) max. V	R _{DS(on)} Ω	I _{lim} A	T _{shut-down} °C	V _{open load} V	P _D @ 25°C W	Package	Mftrs. List No.
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High Sided Switch

50	5.5	35	0.15	5	165	3	1	SO-8	IPS511G
50	5.5	35	0.135	5	165	3	25	TO-220-5	IPS511
50	5.5	35	0.135	5	165	3	1.56	TO-263 (D2-Pak)	IPS511S
50	5.5	35	0.1	10	165	3	1	SO-8	IPS521G
50	5.5	35	0.08	10	165	3	40	TO-220-5	IPS521

Semiconductors - Discretes

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Compliant
Non-compliant
RoHS
+ Limited stock - RoHS replacement available