

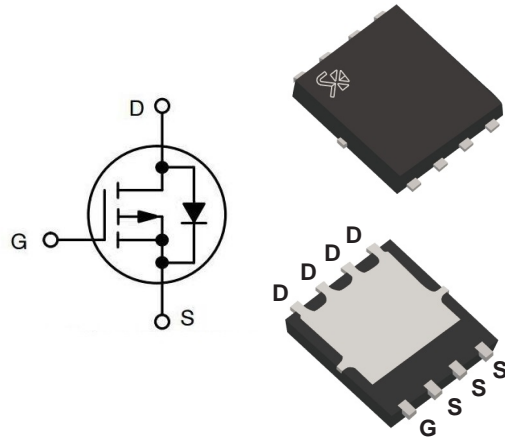
## 30V P-Channel MOSFET

### Feature

- 30V P-Channel MOSFET High Dense Design.
- Ultra low On-Resistance.
- Reliable and Rugged.

### Applications

- Power Management in Notebook Computer, and Portable Equipment and Battery Systems.



PDFN5060

## Electrical Characteristics

### Absolute Maximum Ratings (T<sub>c</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V <sub>DSS</sub>	-30V	V
Gate-Source Voltage	V <sub>GSS</sub>	±20V	V
Drain Current-Continuous @ T <sub>c</sub> =25°C	I <sub>D</sub>	-50	A
Drain Current-Pulsed	I <sub>DM</sub>	-200	A
Operating Junction Temperature Range	T <sub>J</sub>	-55 to 150°C	°C

### Electrical Characteristics(T<sub>c</sub>=25°C unless otherwise noted)

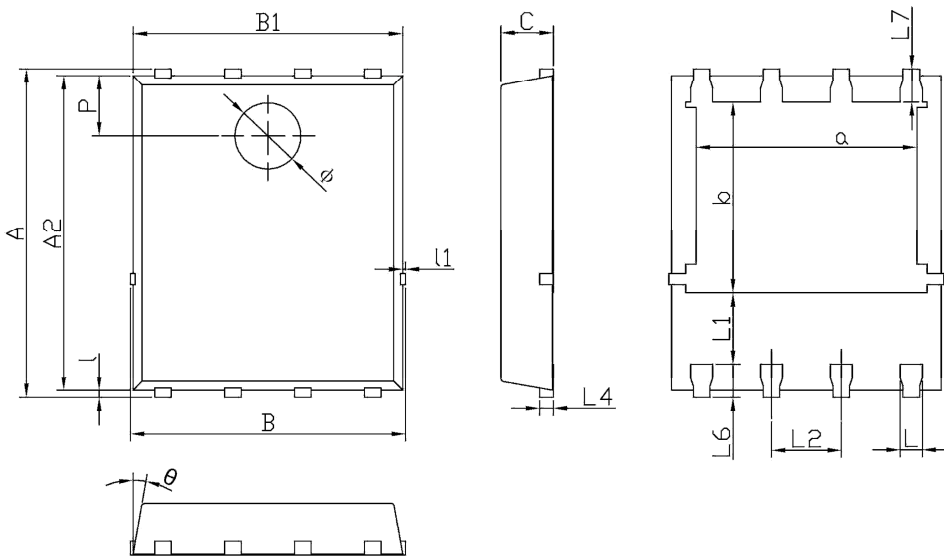
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
OFF CHARACTERISTIC						
Drain-Source Breakdown Voltage	B <sub>V</sub> DSS	V <sub>G</sub> S=0V , I <sub>D</sub> =-250uA	-30	-	-	V
Drain-Source Leakage Current	I <sub>DSS</sub>	V <sub>D</sub> S=-30V, V <sub>G</sub> S=0V, T <sub>J</sub> =25°C	-	-	-1	uA
Drain-Source Leakage Current	I <sub>DSS</sub>	V <sub>D</sub> S=-24V, V <sub>G</sub> S=0V, T <sub>J</sub> =125°C	-	-	-10	uA
Gate-Source Leakage Current	I <sub>GSS</sub>	V <sub>G</sub> S=±20V , V <sub>D</sub> S=0V	-	-	±100	nA
ON CHARACTERISTIC						
Gate Threshold Voltage	V <sub>G</sub> S(TH)	V <sub>G</sub> S=V <sub>D</sub> S, I <sub>D</sub> =-250uA	-1.2	-1.6	-2.5	V
Static Drain-Source On-Resistance	R <sub>D</sub> S(ON)	V <sub>G</sub> S=-10V , I <sub>D</sub> =-10A	-	7.1	8.5	mΩ
		V <sub>G</sub> S=-4.5V , I <sub>D</sub> =-8A	-	11.5	14	
DYNAMIC CHARACTERISTICS						
Input Capacitance	C <sub>iss</sub>	V <sub>D</sub> S=-15V, V <sub>G</sub> S=0V, f=1MHz	-	3300	-	pF
Output Capacitance	C <sub>oss</sub>		-	410	-	
Reverse Transfer Capacitance	C <sub>rss</sub>		-	280	-	

#### NOTE:

1. The data tested by pulsed, pulse with  $\leq 300\mu s$ , duty cycle  $\leq 2\%$ .
2. R<sub>D</sub>S(on) calculated by - package type.

PDFN5060

Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	5.90	6.00	6.10
a	3.91	4.01	4.11
A2	5.70	5.75	5.80
B	4.90	5.00	5.10
b	3.37	3.47	3.57
B1	4.80	4.90	5.00
C	0.90	0.95	1.00
L	0.35	0.40	0.45
l	0.06	0.13	0.20
L1	1.10	-	-
l1	-	-	0.10
L2	1.17	1.27	1.37
L4	0.21	0.26	0.34
L6	0.51	0.61	0.71
L7	0.51	0.61	0.71
P	1.00	1.10	1.20
$\theta$	8°	10°	12°
$\phi$	1.10	1.20	1.30

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