

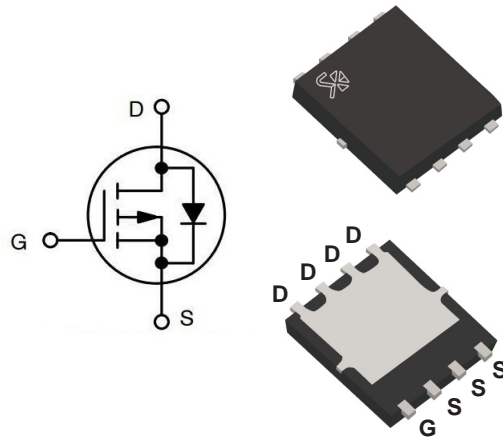
30V P-Channel MOSFET

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 _C =25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DSS}	-30V	V
Gate-Source Voltage	V _{GSS}	±20V	V
Drain Current-Continuous @ T _C =25°C	I _D	-35	A
Drain Current-Pulsed	I _{DM}	-70	A
Operating Junction Temperature Range	T _J	-55 to 150°C	°C

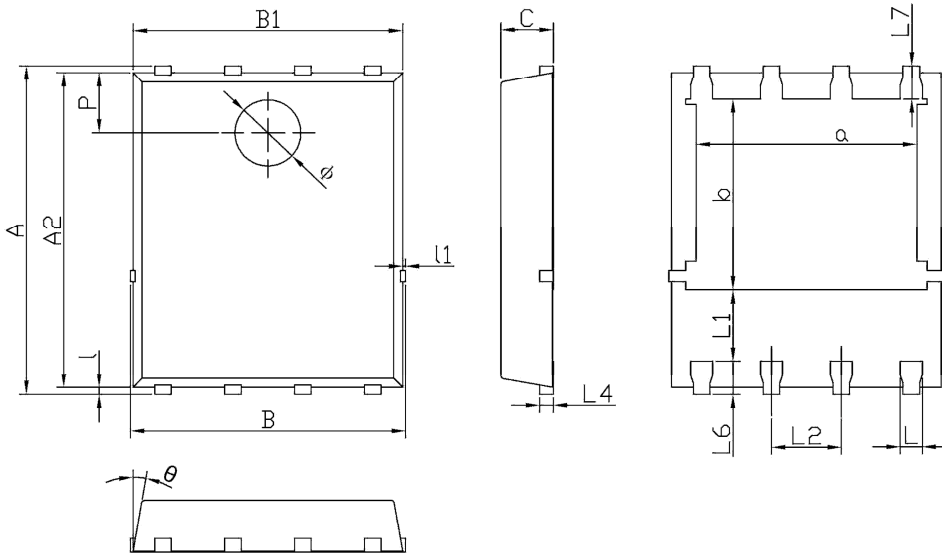
Electrical Characteristics(T_A=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
OFF CHARACTERISTIC						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V , I _D =-250uA	-30	-	-	V
Drain-Source Leakage Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V, T _J =25°C	-	-	1	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} =±20V , V _{DS} =0V	-	-	±100	nA
ON CHARACTERISTIC						
Gate Threshold Voltage	V _{GS(TH)}	V _{GS} =V _{DS} , I _D =-250uA	-1.0	-	-2.5	V
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =-10V , I _D =-6A	-	-	20	mΩ
		V _{GS} =-4.5V , I _D =-4A	-	-	32	
DYNAMIC CHARACTERISTICS						
Input Capacitance	C _{iss}	V _{DS} =-15V, V _{GS} =0V, f=1MHz	-	1345	-	pF
Output Capacitance	C _{oss}		-	194	-	
Reverse Transfer Capacitance	C _{rss}		-	158	-	
DRAIN-SOURCE DIODE CHARACTERISTICS AND MAXIMUM RATINGS						
Drain-Source Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =-1.0A	-	-	-1.2	V

Note: 1. The data tested by pulsed, pulse width ≤300us, duty cycle ≤2%.
2. R_{dson} 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
θ	8°	10°	12°
ϕ	1.10	1.20	1.30

单击下面可查看定价，库存，交付和生命周期等信息

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