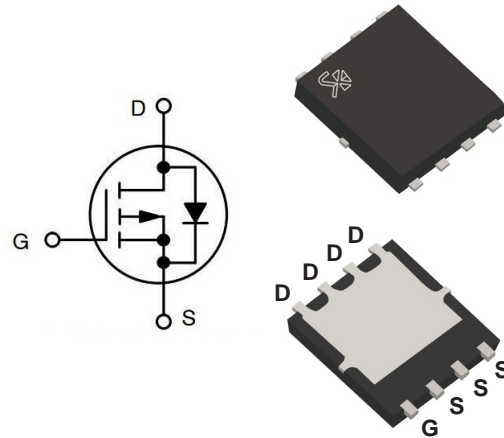


## Feature

- 20V P-Channel MOSFET High Dense Design.
- Ultra low On-Resistance.
- $R_{DS(ON)} = 9m\Omega$ (typ.) @  $V_{GS} = -4.5V$
- $R_{DS(ON)} = 13m\Omega$ (typ.) @  $V_{GS} = -2.5V$
- Reliable and Rugged.

## Applications

- Power Management in Portable Equipment and Battery Powered Systems and other General Application.



PDFN5060

### 1. Absolute Maximum Ratings ( $T_A = 25^\circ C$ Unless Otherwise Noted)

Symbol	Parameter	Rating	Unit
$V_{DSS}$	Drain-Source Voltage	-20	V
$V_{GSS}$	Gate-Source Voltage	$\pm 12$	
$I_D$	Continue Drain Current	-18	A
$I_{DM}$	Pulsed Drain Current	-72	
$I_S$	Diode Continuous Forward Current	-18	A
$T_J$	Maximum Junction Temperature	150	$^\circ C$
$T_{STG}$	Storage Temperature Range	-55 to 150	
$R_{\theta JA}^*$	Thermal Resistance-Junction to Ambient(SOP8)	62.5	$^\circ C/W$

### 2. Static Electrical Characteristics ( $T_A = 25^\circ C$ Unless Otherwise Noted)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
<b>Static</b>						
$BV_{DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0V, I_{DS}=-250\mu A$	-20			V
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS}=-16V, V_{GS}=0V$ $T_J=85^\circ C$			-1	$\mu A$
					-30	
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}, I_D=250\mu A$	-0.5	-0.7	-1	V
$I_{GSS}$	Gate Body Leakage Current	$V_{GS}=\pm 12V, V_{DS}=0V$			$\pm 100$	nA
$R_{DS(ON)}$	Drain-Source On-state Resistance	$V_{GS}=-4.5V, I_{DS}=-1A$		9	12	m $\Omega$
		$V_{GS}=-2.5V, I_{DS}=-1A$		13	16	
$V_{SD}$	Diode Forward Voltage	$I_{SD}=-1A, V_{GS}=0V$		-0.7	-1.3	V

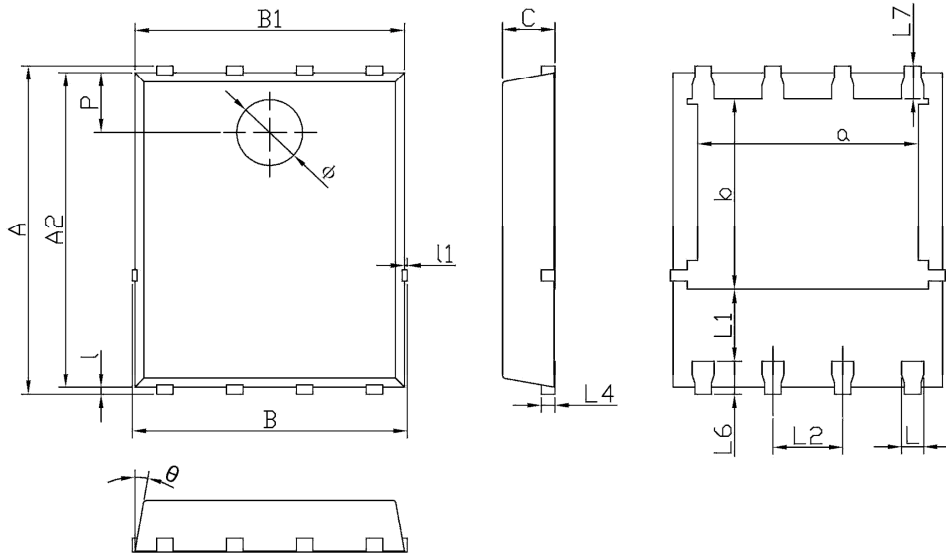
\*Note:

a : Current maybe limit by bonding wire.

b : The  $R_{\theta JA}$  is the sum of the thermal impedance from junction to ambient and depend on 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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