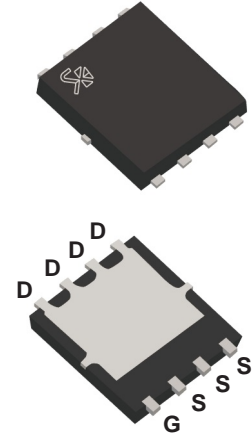
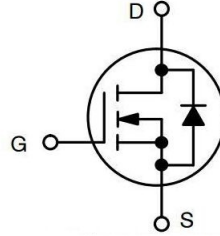


Feature

- 100V N-Channel MOSFET High Dense Design.
- $R_{DS(ON)} = 4m\Omega$ (typ.) @ $V_{GS} = 10V$
- $R_{DS(ON)} = 5m\Omega$ (typ.) @ $V_{GS} = 4.5V$
- Reliable and Rugged



PDFN5060

Applications

- Secondary Side Synchronous Rectification.
- DC-DC Converter.
- Motor Control.
- Load Switching

1. Absolute Maximum Ratings (T_A=25°C Unless Otherwise Noted)

Symbol	Parameter	Rating	Unit
V _{DSS}	Drain-Source Voltage	100	V
V _{GSS}	Gate-Source Voltage	±20	
I _D	Continue Drain Current	93	A
I _{DM} ^a	Pulsed Drain Current	140	
T _J	Maximum Junction Temperature	150	°C
T _{STG}	Storage Temperature Range	-55 to 150	

2. Static Electrical Characteristics (T_A=25°C Unless Otherwise Noted)

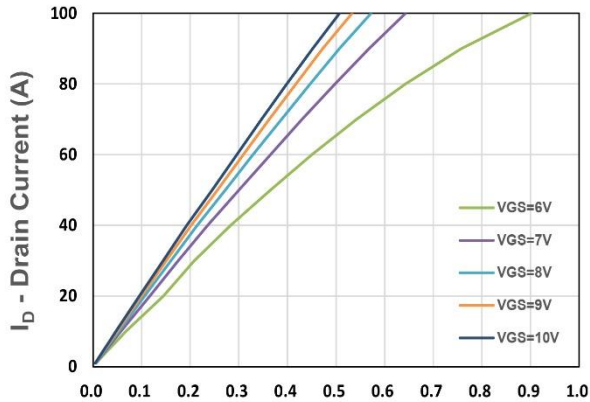
Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics^c						
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V, I _{DS} =250μA	100	-	-	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =80V, V _{GS} =0V T _J =85°C	-	-	1	μA
			-	-	30	
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} , I _{DS} =250μA	2	3	4	V
I _{GSS}	Gate Leakage Current	V _{GS} =±20V, V _{DS} =0V	-	-	±100	nA
R _{DS(ON)}	Drain-Source On-state Resistance	V _{GS} =10V, I _{DS} =1A	-	4	5.2	mΩ
		V _{GS} =6V, I _{DS} =1A	-	5	7	
V _{SD}	Diode Forward Voltage	I _{SD} =0.5A, V _{GS} =0V	-	0.7	1.3	V

*Note:

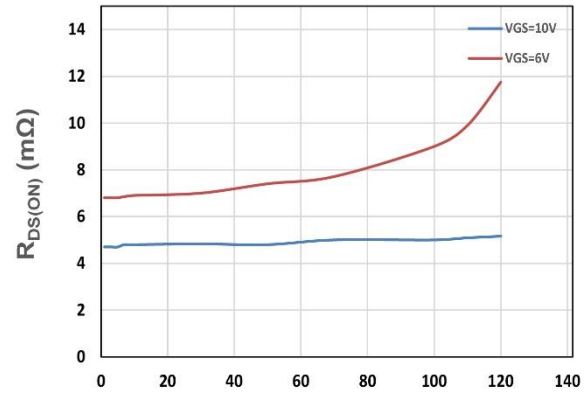
a : Current maybe limit by bonding wire.

b : The R_{θJC} is the sum of the thermal impedance from junction to ambient and depend on package type.

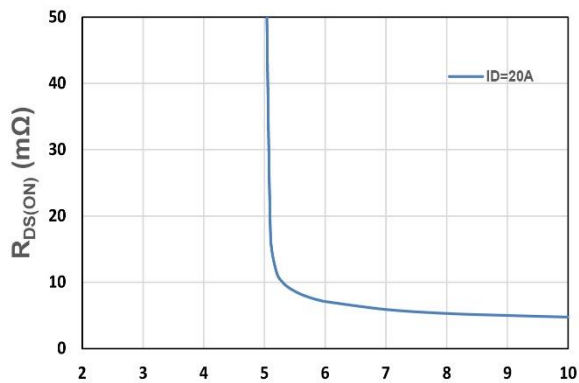
TYPICAL CHARACTERISTICS



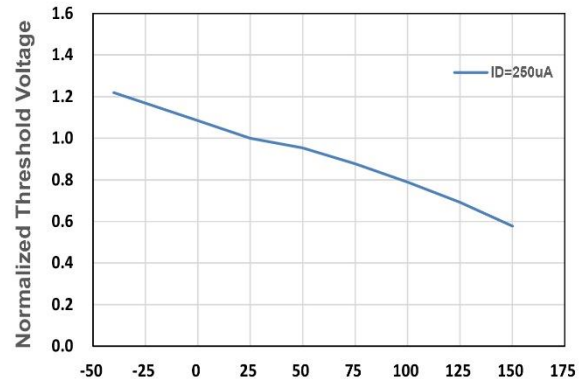
V_{DS} - Drain - Source Voltage (V)
Figure 1. Output Characteristics



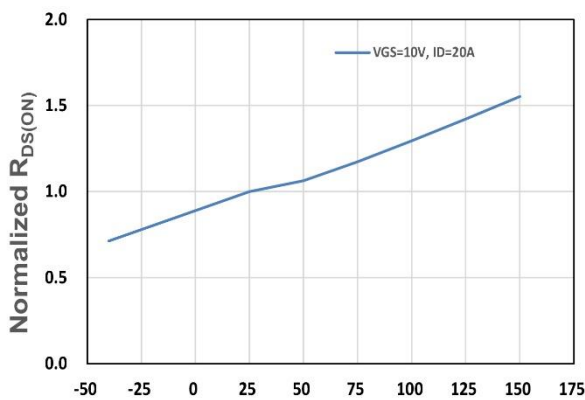
I_D - Drain Current (A)
Figure 2. On-Resistance vs. I_D



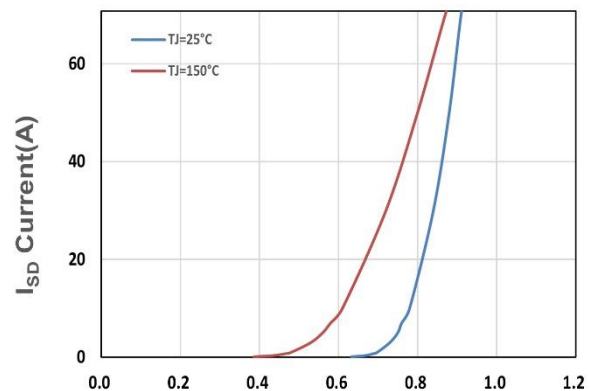
V_{GS} - Gate - Source Voltage (V)
Figure 3. On-Resistance vs. V_{GS}



T_j , Junction Temperature(°C)
Figure 4. Gate Threshold Voltage



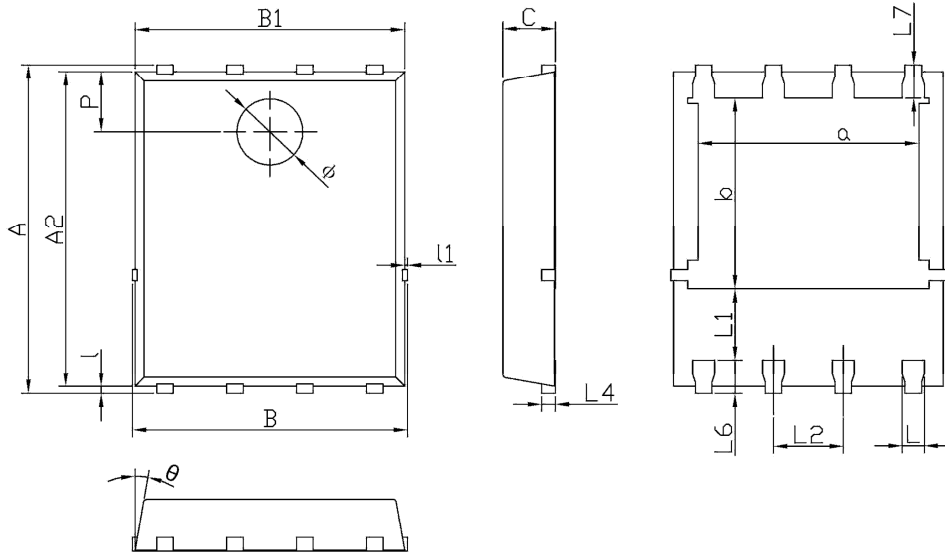
T_j , Junction Temperature(°C)
Figure 5. Drain-Source On Resistance



V_{SD} , Source-Drain Voltage(V)
Figure 6. Source-Drain Diode Forward

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

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