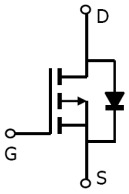
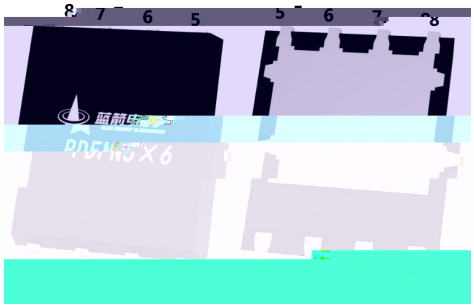
PDFN5Ö6 Ṃ Ŀ P ŏ ʃ ѽ Ẕ ٦
P-Channel MOSFET in a PDFN5×6 Plastic Package.

V_{DS}(V)=-30V I_D=-30A
$R_{DS(ON)}$@-10V<20mΩ(TYP. 17.5mΩ)
$R_{DS(ON)}$@-4.5V<30mΩ(TYP. 25.5mΩ)
ṇ ғ β 。HF Product.

ヽ ʟ ɔ ὖ Ґ Ш ژ ϶ ق ذ Ầ ʜ ı ɔ – ℨ ĭ Ⅹ ɔ /ѽ ɔ
Notebook AC-in Load Switch,Battery Protection Charge/Discharge.





PIN1、2、3： S PIN4：G PIN5、6、7、8：D

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See Marking Instructions.

v ‴Ω Parameter		ϒ N Symbol	‴Ω Ö Rating	D Ɥ Unit
Drain-Source Voltage		V_{DS}	-30	V
Drain Current - Continuous		I_D(T_c=25℃)	-30	A
Drain Current – Pulsed		I_{DM}	-92	A
Gate-Source Voltage		V_{GS}	±20	V
Power Dissipation		P_D(T_c=25℃)	28	W
Single Pulse Avalanche Energy(L=0.5mH)		E_{AS}	152	mJ
Avalanche Current(L=0.5mH)		I_{AS}	19.5	A
Junction and Storage Temperature Range		T_j, T_{stg}	-55 to 150	ł
Thermal resistance, junction - ambient	t ⩽ 10s	$R_{\theta JA}$	28	/ W
	Steady-State		62	
Thermal resistance, junction - case	Steady-State	$R_{\theta JC}$	4.5	

v ̈Ω Parameter	ϒ N Symbol	⅄ ;↑ ϯ Test Conditions	ѡ ṇ Ө Min	Ɛ ȝ Ө Typ	ѡ ᶻ Ө Max	ᴅ Ꮋ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=-10V V_{DS}=-15V R_L=1.5Ω R_{GEN}=3Ω		10		ns
Turn-On Rise Time	t_r			5.5		
Turn-Off Delay Time	$t_{d(off)}$			26.1		
Turn-Off Fall Time	t_f			9.1		

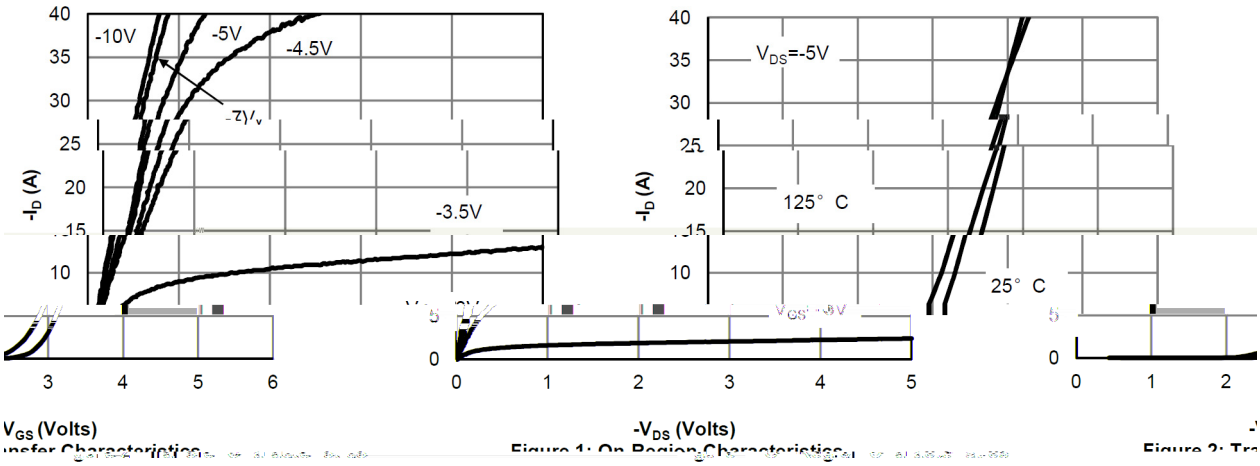


Figure 1: On-Region Characteristics

Figure 2: Tra

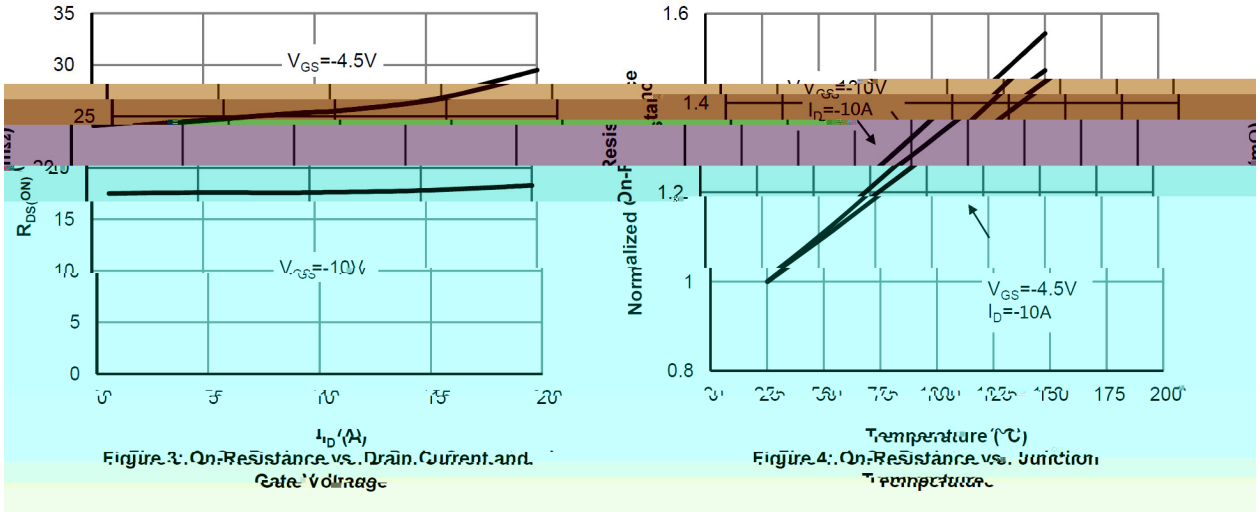


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

Figure 4: On-Resistance vs. Junction Temperature

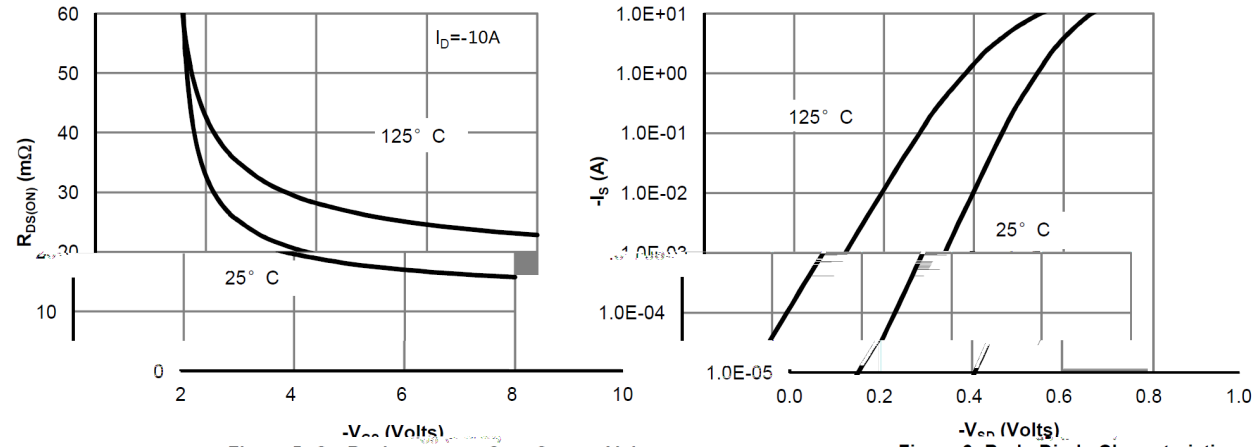


Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Characteristics

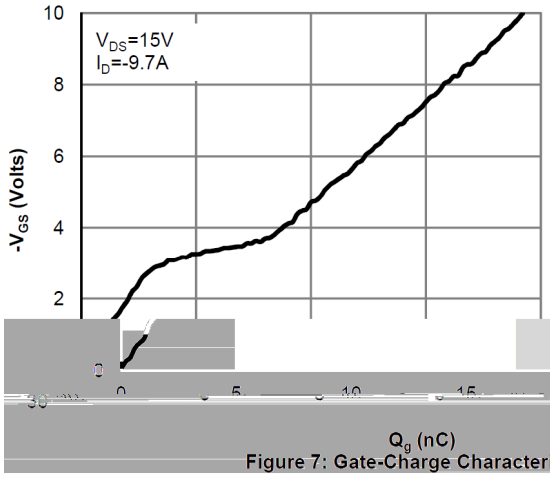


Figure 7: Gate-Charge Characteristics

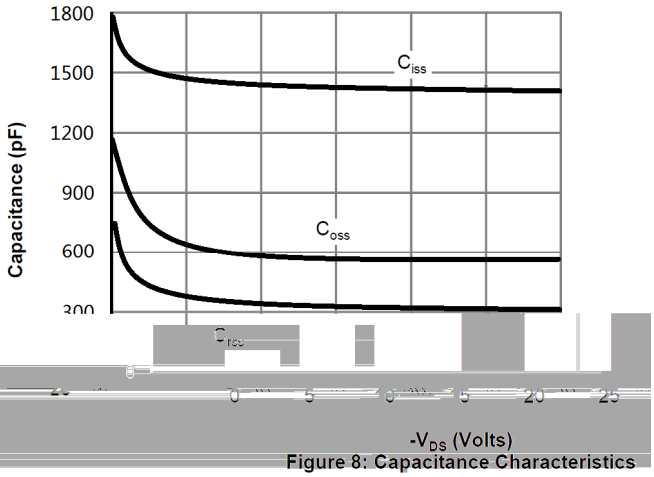


Figure 8: Capacitance Characteristics

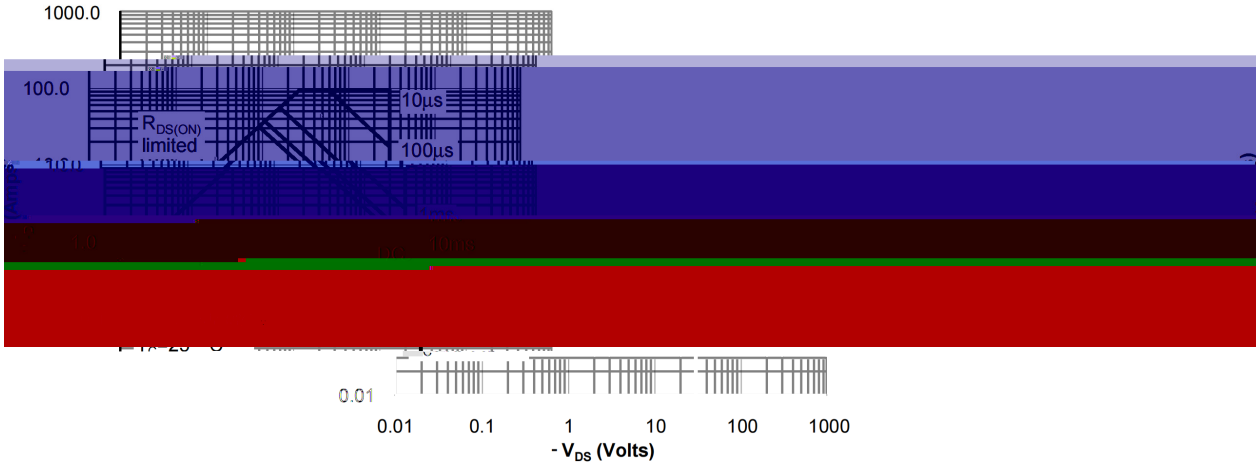


Figure 9: Maximum Forward Biased Safe Operating Area

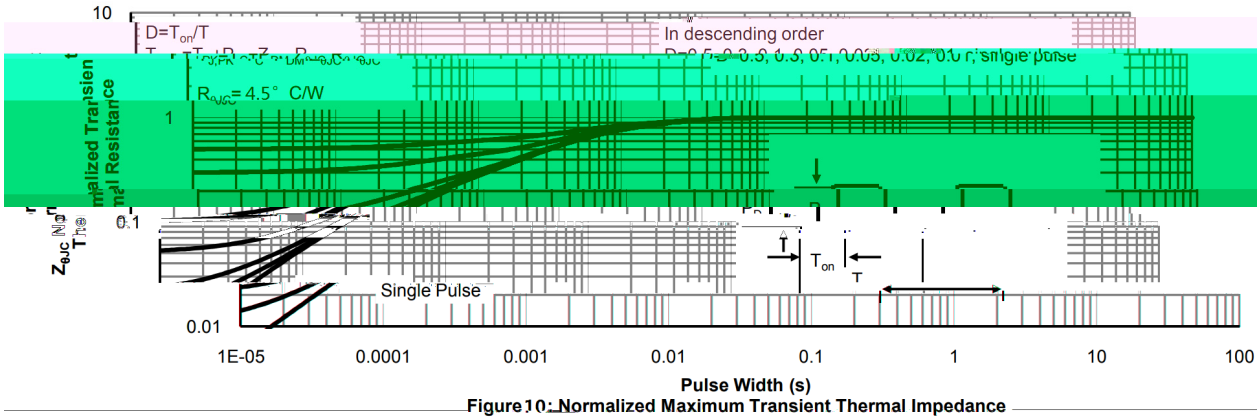
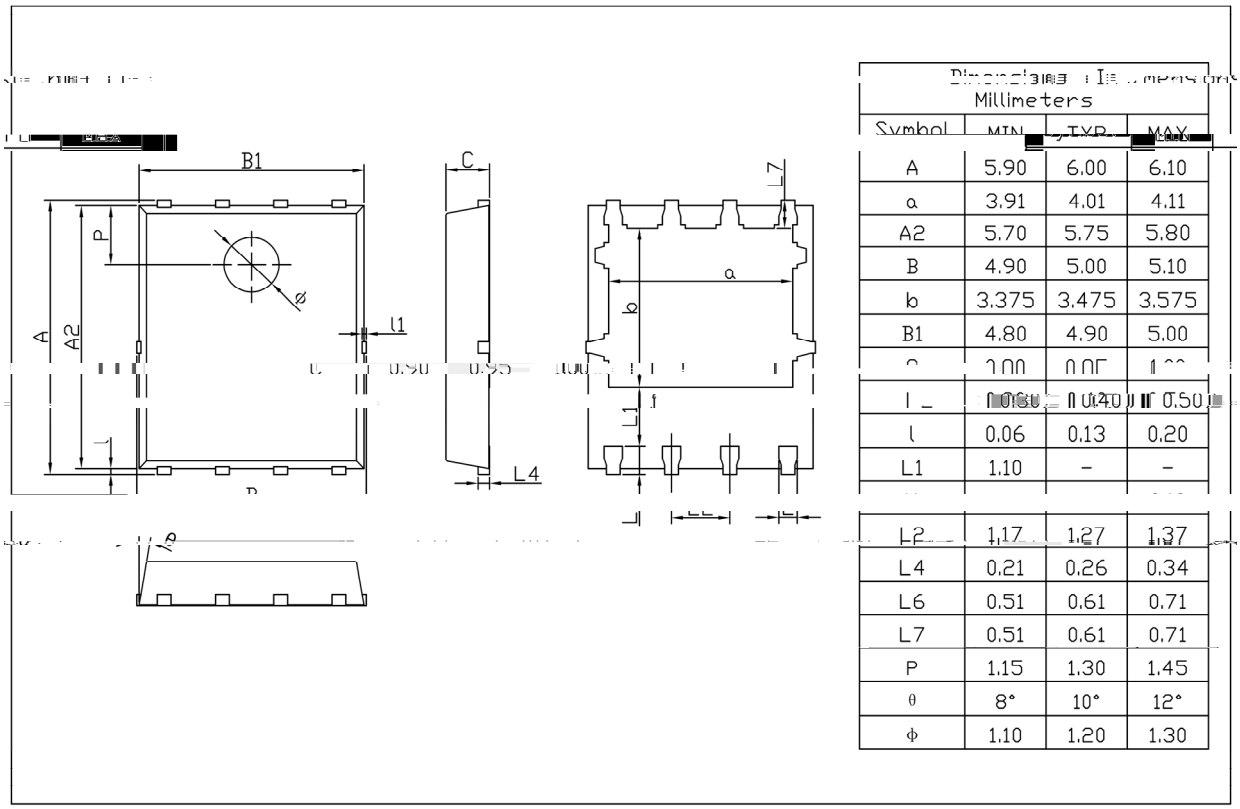


Figure 10: Normalized Maximum Transient Thermal Impedance

PDFN5×6

Unit:mm



Dimensions In Millimeters			
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	3.375	3.475	3.575
B1	4.80	4.90	5.00
c	0.00	0.05	0.20
L	0.40	0.50	0.60
l	0.06	0.13	0.20
L1	1.10	–	–
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	1.15	1.30	1.45
θ	8°	10°	12°
Φ	1.10	1.20	1.30

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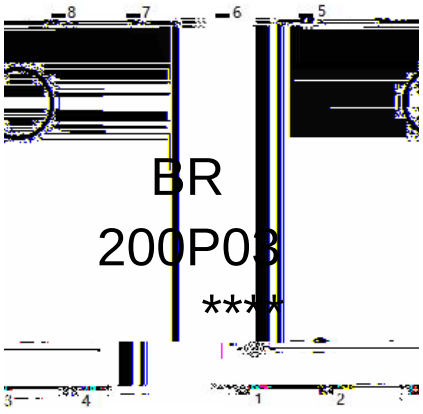

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EU χ ꟻ ʒ ᴎ Ꮒ

200P03 χ ꟻ ȝ ᴺ Ꮒ

---- χ ꟻ ꞁ ꜰ ᵑ̈ ᴺ Ꮒ ꞁ ɬ ꞁ ꜰ ᵑ̈ ᴺ Ψ ᖷ

Note χ

BR χ Company Code

200P03 χ Product Type Code

****: Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)

ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ɬ ı `H ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 245 ° 5 ɬ ı `H ڑ 'Y ʌ ʬ 5 ° 0.5sec;

3 ì ˙ ϒ ˛ ɔ ѡ ỷ ʬ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:150~180 ɬ , Time:60~90sec.

2.Peak Temp.:245 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

□ ỷ χ 260 ° 5 ɬ `H ڑ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

ɔ ` ϒ Ь / REEL

Package Type Ṃ Ь ė Ǎ	Units				Dimension (unit mm³)
	Units/Reel Ɛ 2 ɔ `	Reels/Inner Box ɔ ` 2 ¨	Units/Inner Box Ɛ 2 ¨	Inner Boxes/Outer Box ¨ 2 ٩	