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N-Channel Enhancement Mode Field Effect Transistor in a PDFN3Ö3A-8L Plastic Package.

V_{DS} (V) = 30V I_D =76A (V_{GS} = ± 20V)

$R_{DS(ON)}$@10V ≤ 3.5mΩ(Typ.3.3mΩ)

$R_{DS(ON)}$@4.5V ≤ 6.5mΩ(Typ.4.7mΩ)

ṇ ꞙ ᵝ HF Product.

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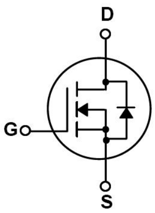
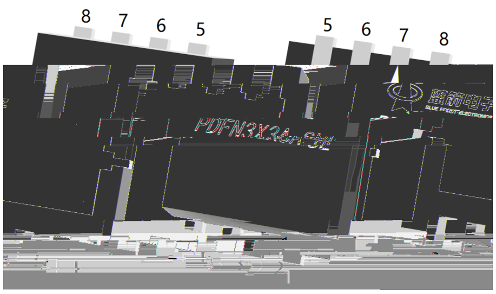
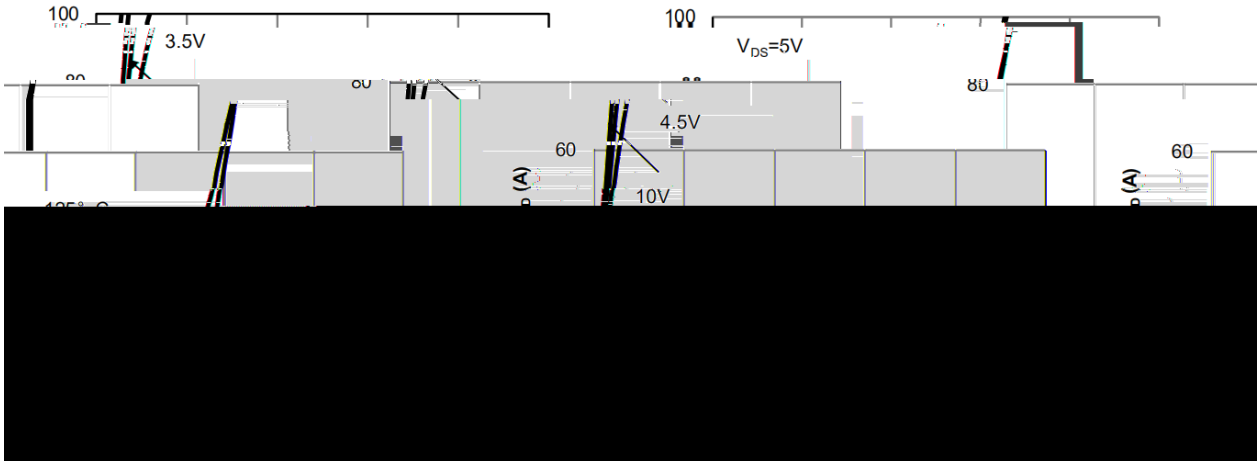
Load Switch Applications,Battery Power Management.

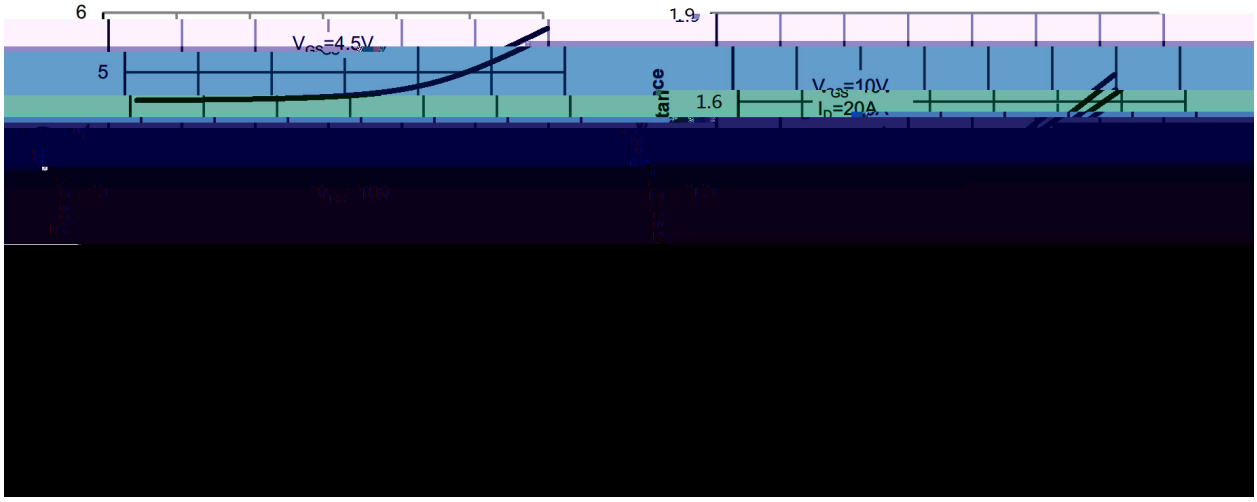


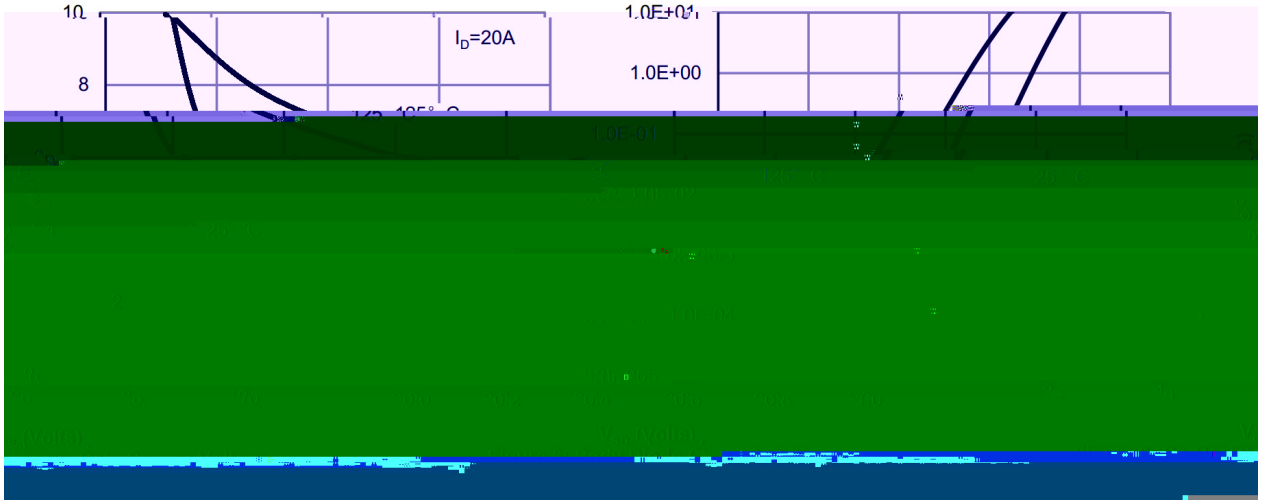


v ̈Ω Parameter		ϒ N Symbol	̈Ω Ö Rating	D Ч Unit
Drain-Source Voltage		V_{DSS}	30	V
Drain Current		I_D(Tc=25)	76	A
Drain Current - Pulsed		I_{DM}	190	A
Gate-Source Voltage		V_{GSS}	±20	V
Single Pulsed Avalanche Energy		E_{AS}	449	mJ
Avalanche Current		I_{AS}	33.5	A
Power Dissipation		P_D(Tc=25)	35	W
Operating and Storage Temperature Range		T_J,T_{stg}	-55 to 150	
Junction-to-Ambient	t ≤ 10	$R_{\theta JA}$	42	/W
Junction-to-Ambient	Steady-State		78	
Junction-to-Case	Steady-State	$R_{\theta JC}$	3.6	

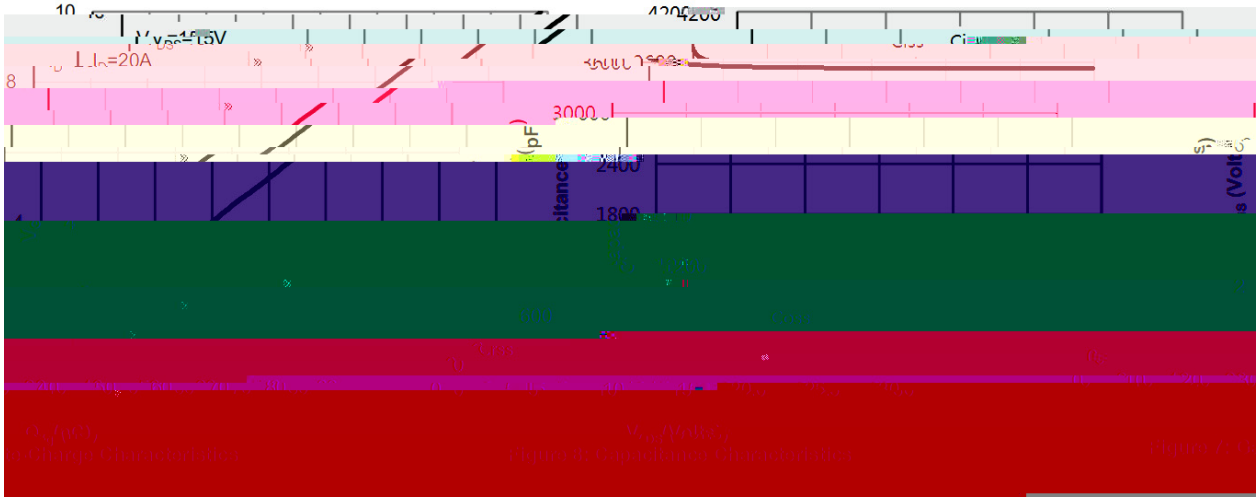
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V	I_D=250μA	30	35		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=30V	V_{GS}=0V			1	μA
Gate-Body Leakage Current Forward	I_{GSS}	V_{GS}=±20V	V_{DS}=0V			±0.1	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS}	I_D=250μA	1.0	1.5	3.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=10V	I_D=20A		3.3	3.5	mΩ
		V_{GS}=4.5V	I_D=10A		4.7	6.5	mΩ
Drain-Source Diode Forward Voltage	V_{SD}	V_{GS}=0V	I_S=1A			1.2	V
Input Capacitance	C_{iss}	V_{DS}=25V f=1.0MHz	V_{GS}=0V		3470		pF
Output Capacitance	C_{oss}				270		
Reverse Transfer Capacitance	C_{rss}				240		
Gate resistance	R_g	V_{GS}					

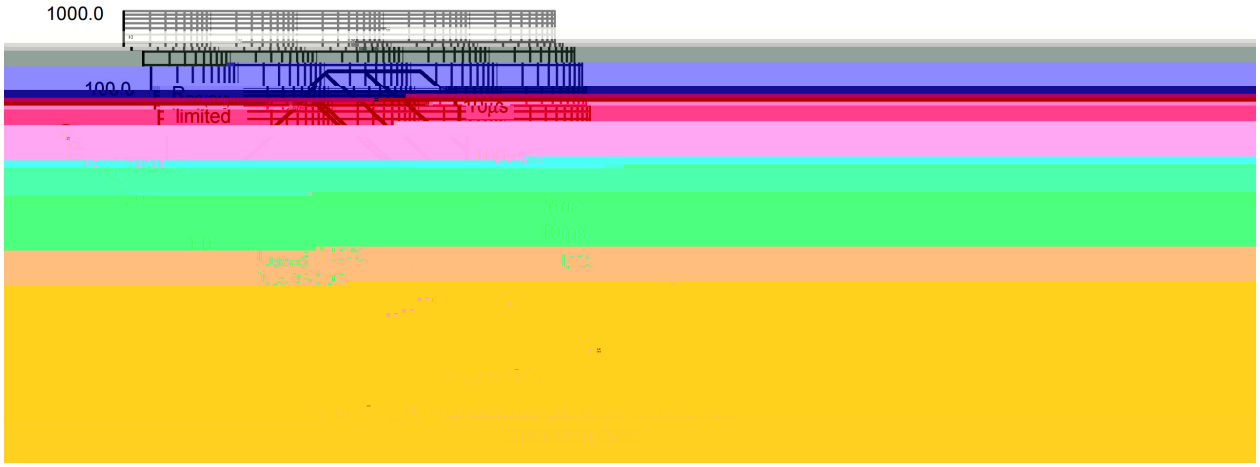

100
3.5V
80
60
(A)
100
V_{DS}=5V
4.5V
10V
80
60
(A)

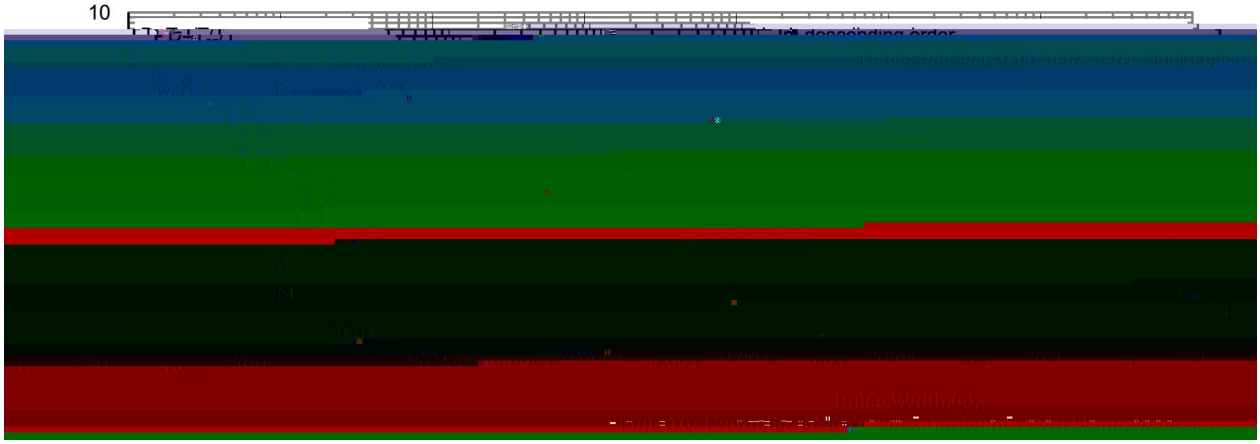

6
5
1.9
1.6
I_D=20A


10
8
I_D=20A
1.0E+01
1.0E+00

/

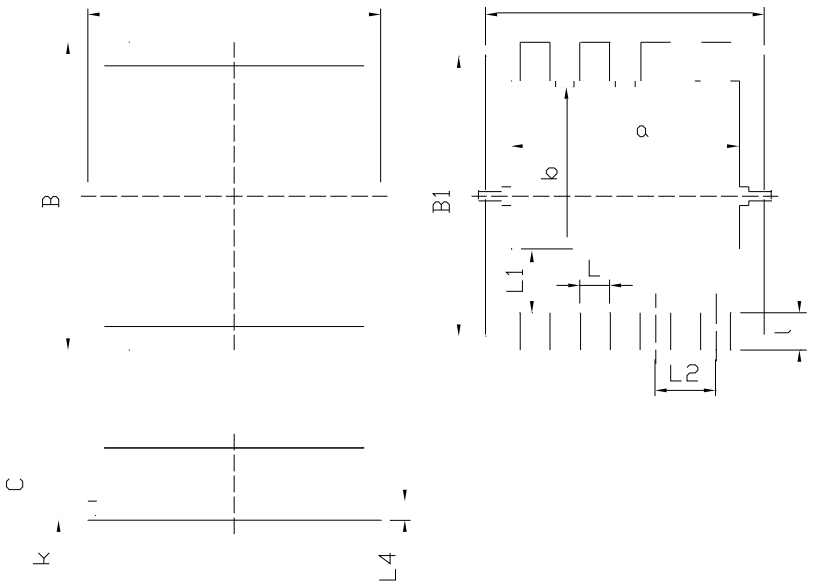



1000.0
100.0
limited

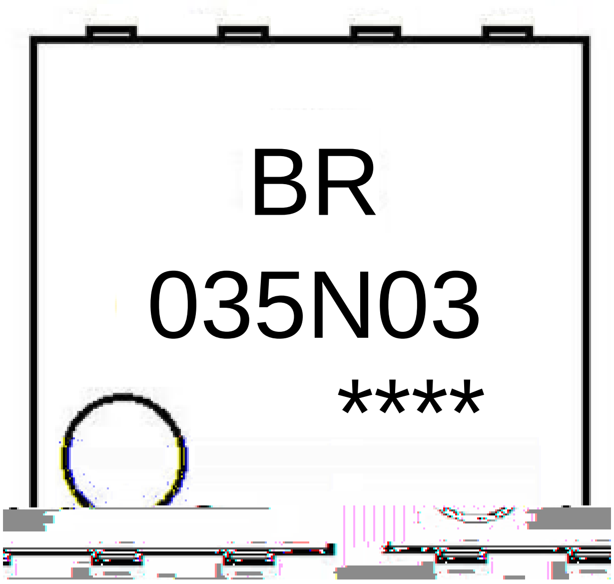

10

PDFN3X3A-8L

Unit:mm



C	0.75	0.80	0.85
L	0.25	0.30	0.35
L1	-	-	0.75
L2	0.55	0.65	0.75
L4	0.14	0.15	0.20
a	2.35	2.45	2.55
b	1.635	1.735	1.835
K	0.00	-	0.05
l	0.30	0.40	0.50



ب ˝ χ

BR χ ꭤ ʇ ᴻ ᏁᏅ

035N03 χ ꭤ ʒ ᴺ ᏁᏅ

---- χ ꭤ ɨ ғ ή ᴺ ᏁᏅ ı ɐ ɨ ғ ή ᴺ ψ ק

Note:

BR: Company Code

035N03: 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 ʁ 5 ° 0.5sec;

3 ì ˙ ٢ ˛ ɔ ѕ ỷ ʁ 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 ` ɣ Ł / REEL