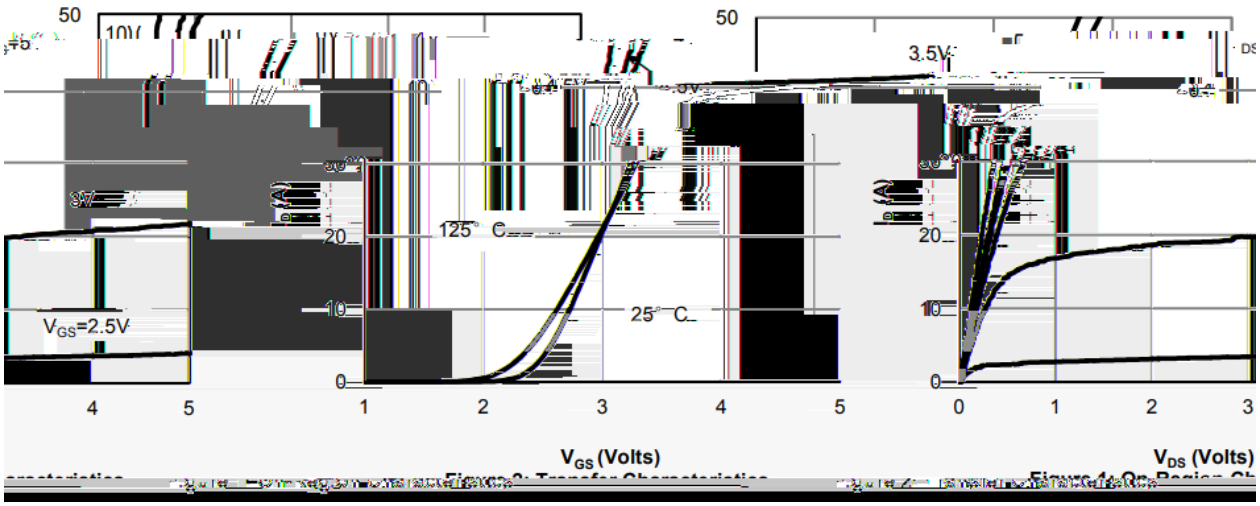
SGIQ6Ö6D0;0 ṂṂÞ Q ॐ PRV ß ῦ Ẓ ᐟ
N-Channel Enhancement Mode Field Effect Transistor in a PDFN3Ö3A-8L Plastic Package.

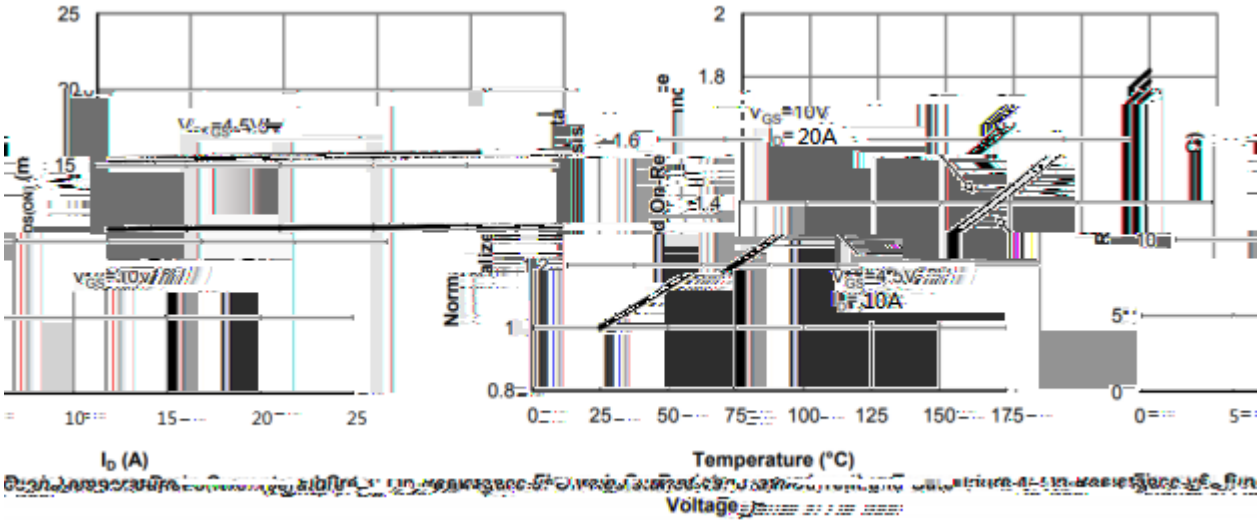
V_{DS} (V) = 30V
I_D =20 A (V_{GS} = 20V)
$R_{DS(ON)}$@10V 13mR(Typ.11mR)
ヽ ᵀ DHF0T434 ‰´ ≍ ˡ ˎ ό ι ∂ ι ή ғ β Qualified to AEC-Q101 Standards for High Reliability, HF Product.

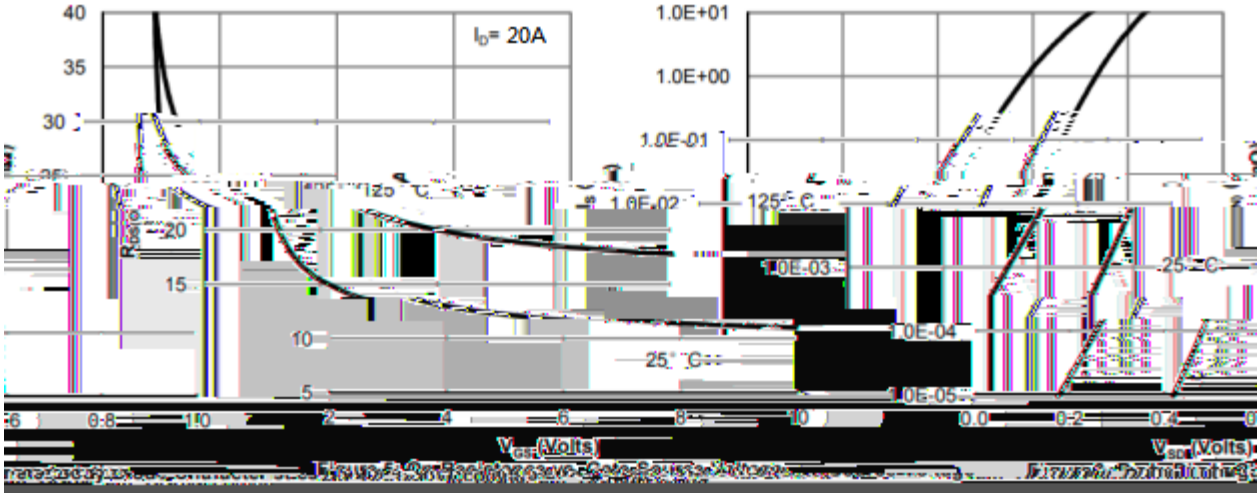
ἓ ≍ ı ' GF2GF ¯ ″A ≡

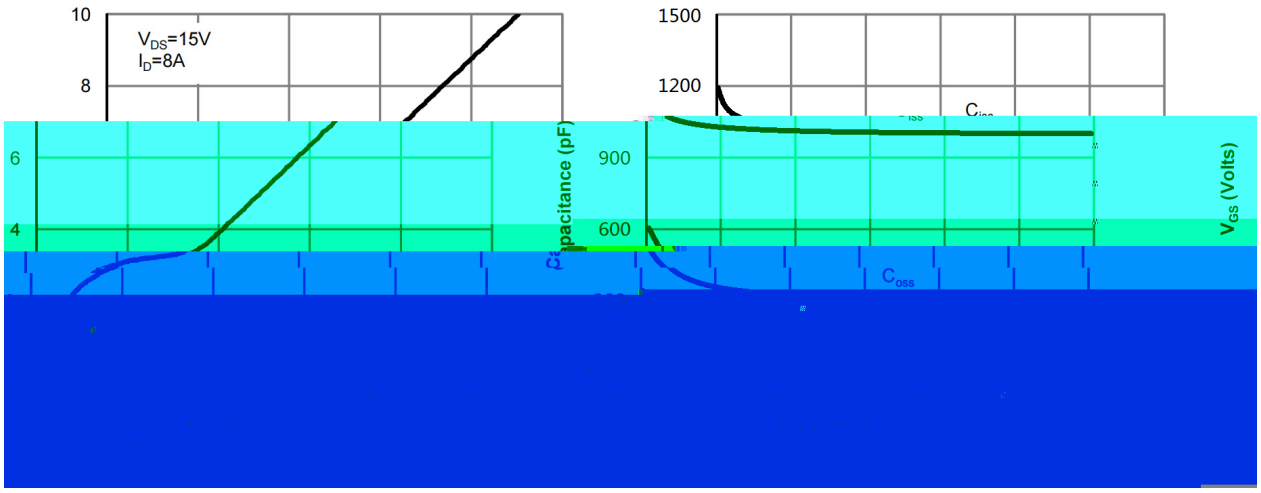
v ″Ω Parameter		ϒ N Symbol	″Ω Ö Rating	D Ч Unit
Drain-Source Voltage		V_{DSS}	30	V
Drain Current		I_D(Tc=25)	20	A
Drain Current - Pulsed		I_{DM}	55	A
Gate-Source Voltage		V_{GSS}	±20	V
Single Pulsed Avalanche Energy		E_{AS}	199	mJ
Avalanche Current		I_{AS}	12.9	A
Power Dissipation		P_D(Tc=25)	15.5	W
Operating and Storage Temperature Range		T_J,T_{stg}	-55 to 150	
Junction-to-Ambient	t 10	$R_{\theta JA}$	30	/W
Junction-to-Ambient	Steady-State		60	
Junction-to-Case	Steady-State	$R_{\theta JC}$	8	

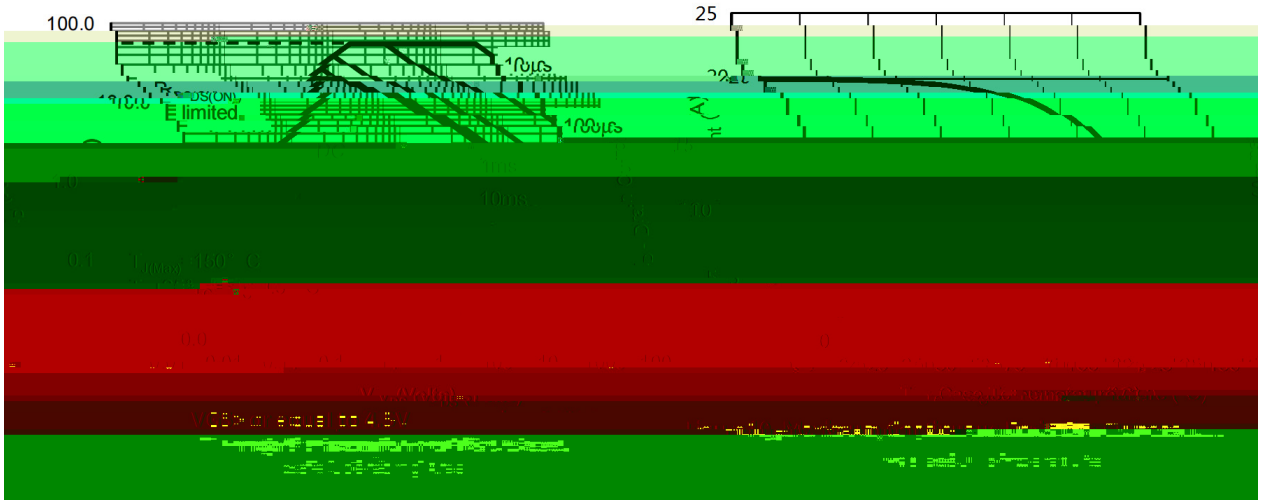
Rev.A Dec.-2023


50
40
30
20
10
0
125° C
25° C
V_{GS}=2.5V
4
5
1
2
3
V_{GS} (Volts)
50
3.5V
40
30
20
10
0
0
1
2
3
V_{DS} (Volts)


25
20
15
10
V_{GS}=4.5V
V_{GS}=10V
10
15
20
25
I_D (A)
2
1.8
1.6
1.4
1.2
1
0.8
V_{GS}=10V
I_D= 20A
V_{GS}=4.5V
I_D=10A
Norm
0
25
50
75
100
125
150
175
Temperature (°C)


40
35
30
20
15
10
5
I_D= 20A
125° C
25° C
6
8
10
2
4
6
8
10
V_{GS} (Volts)
1.0E+01
1.0E+00
1.0E-01
1.0E-02
1.0E-03
1.0E-04
1.0E-05
125° C
25° C
0.0
0.2
0.4
V_{SD} (Volts)





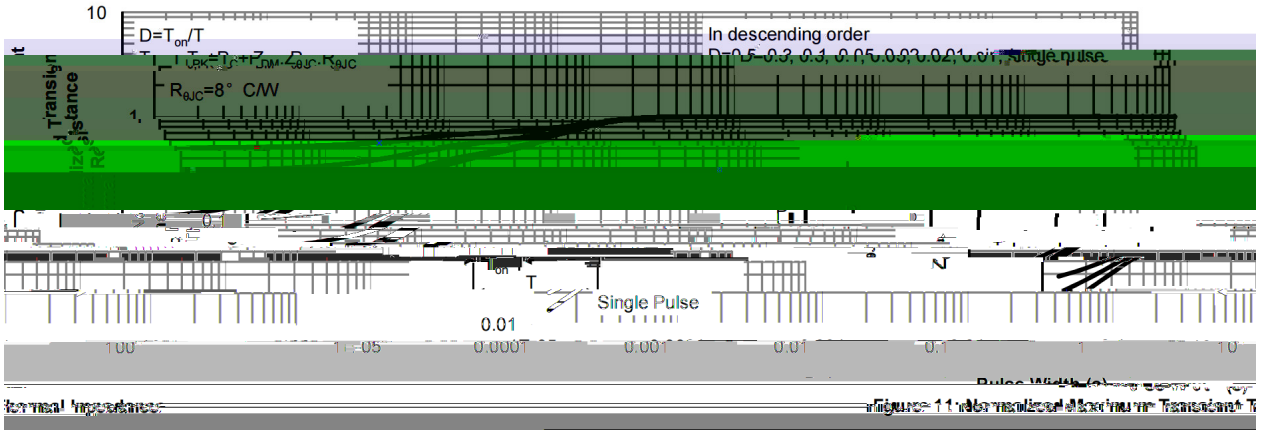
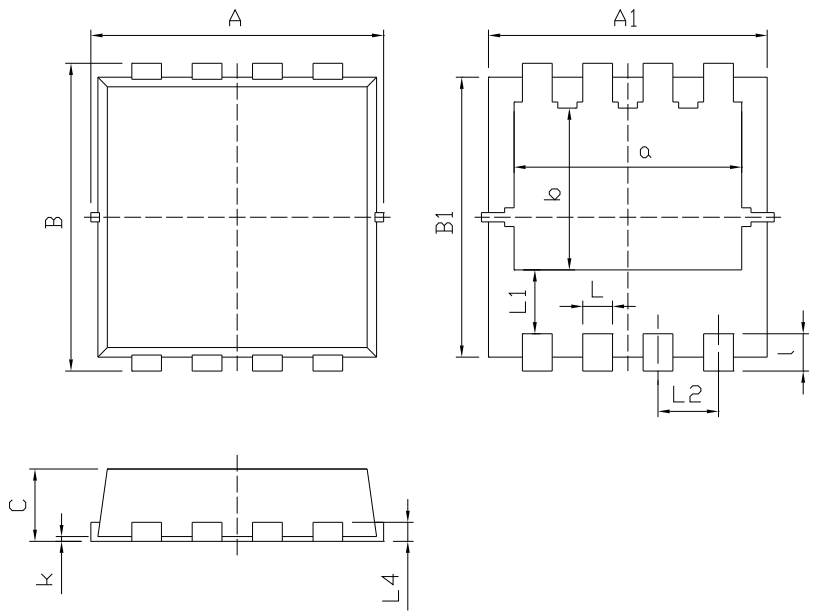


Figure 11 Normalized Maximum Transient T

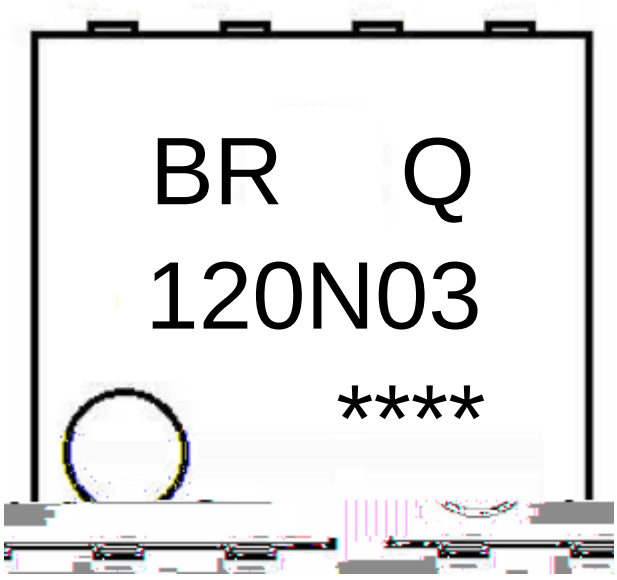
PDFN3X3A-8L

Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	3.20	3.30	3.40
A1	3.10	3.15	3.20
B	3.20	3.30	3.40
B1	2.95	3.00	3.05
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

Rev.00 202011



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BR χ	ѭ ϗ и Ղ
Q χ	ѭ ∩ ۾ ṅ ғ β ‰ ѵ
120N03 χ	ѭ ȝ ᴺ Ղ
---- χ	ѭ ɨ ғ ӈ ᴺ Ղ ɪ ɕ ɨ ғ ӈ ᴺ Ψ ק

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
120N03:	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 200 ł ı `H ڑ 60 Ḱ 120sec;

2 Š Ë □ ỷ 255 ° 5 ł ı `H ڑ 'Y ﾊ ㎛ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ɔ ﾙ ỷ ㎛ 2 Ḱ 10 ł /sec.

Note:

1.Preheating:150~200 ł , Time:60~120sec.

2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

605 ° 5 ł