

SGIQ6Ö6D0;0 M M E S S P R V J Q Z 1

P-Channel Enhancement Mode Field Effect Transistor in a PDFN3 × 3A-8L Plastic Package.

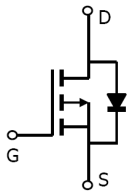
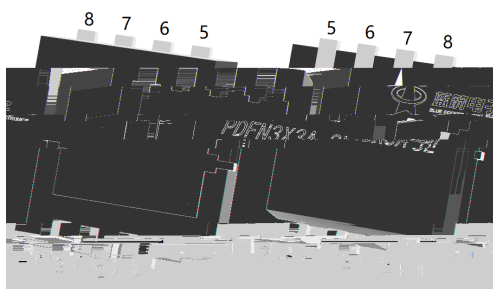
$V_{DS} (V) = -30V$

$I_D = -34 A (V_{GS} = \pm 20V)$

$R_{DS(ON)}@10V \leq 14mR (Typ.12.8mR)$

1 T DHF0T434 % 2 1 . 6 L 0 1 1 f 3 Qualified to AEC-Q101 Standards for High Reliability, HF Product.

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies, Meet the stringent requirements of automotive applications.

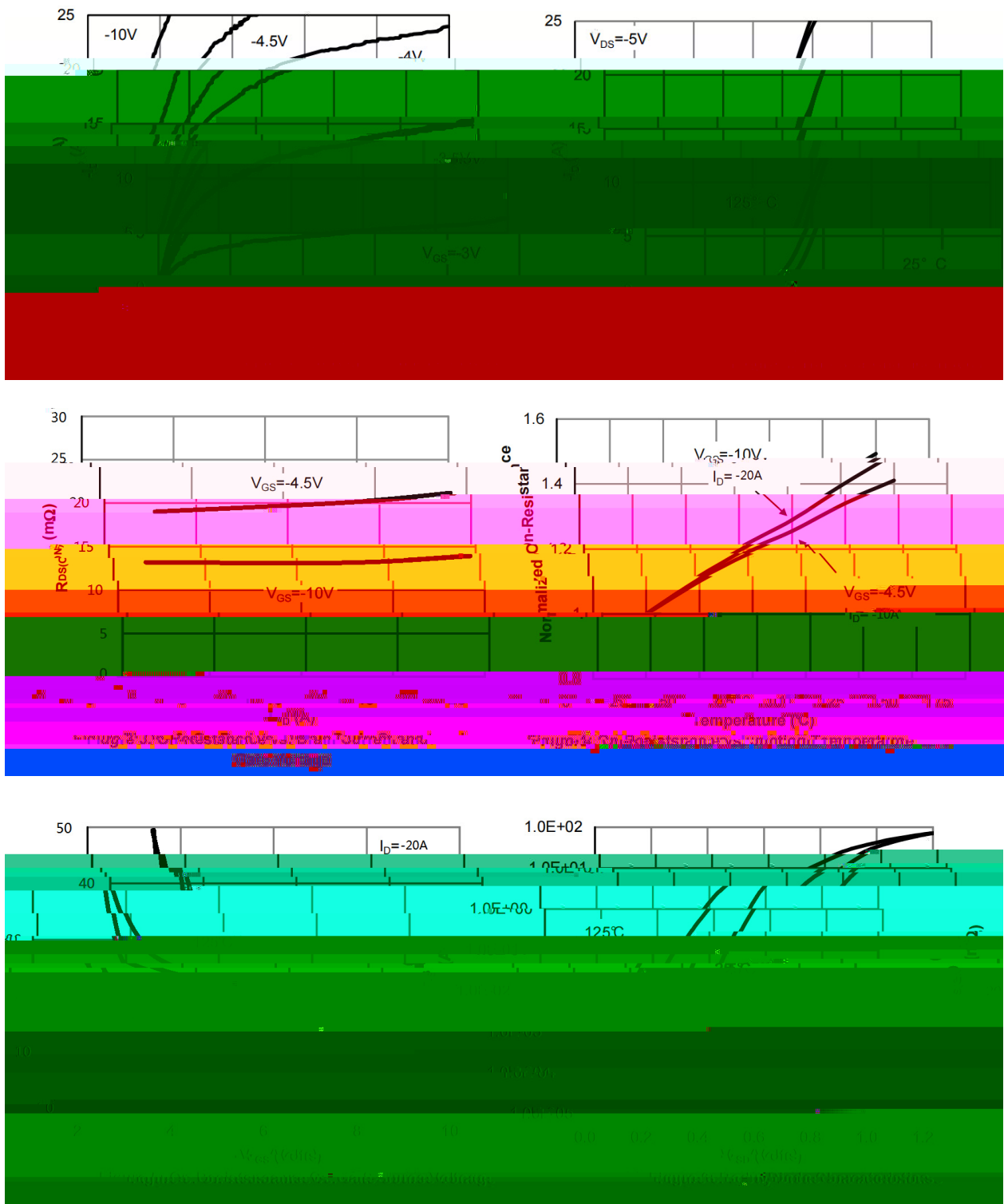


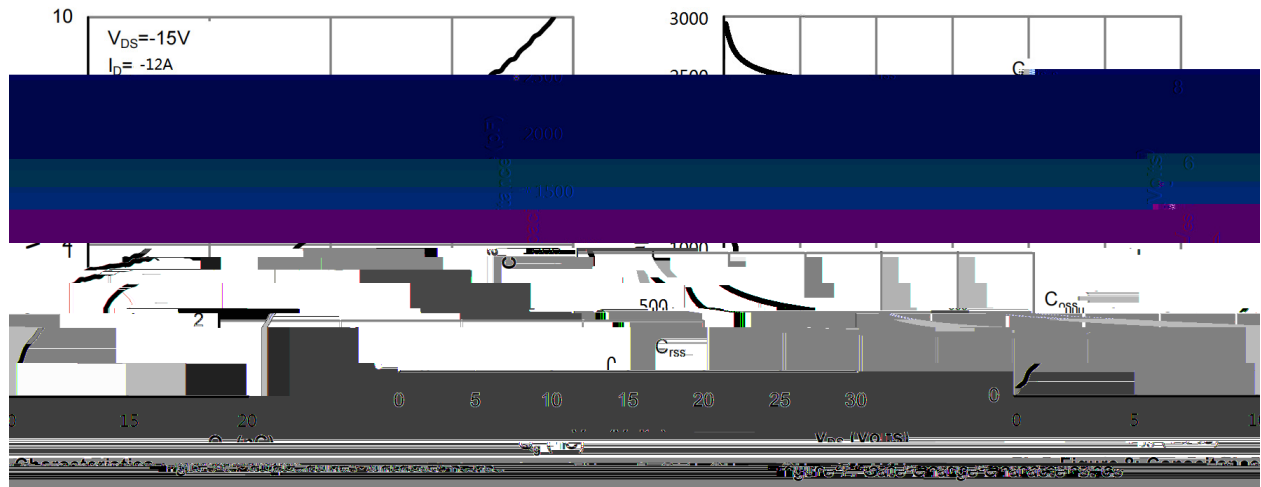
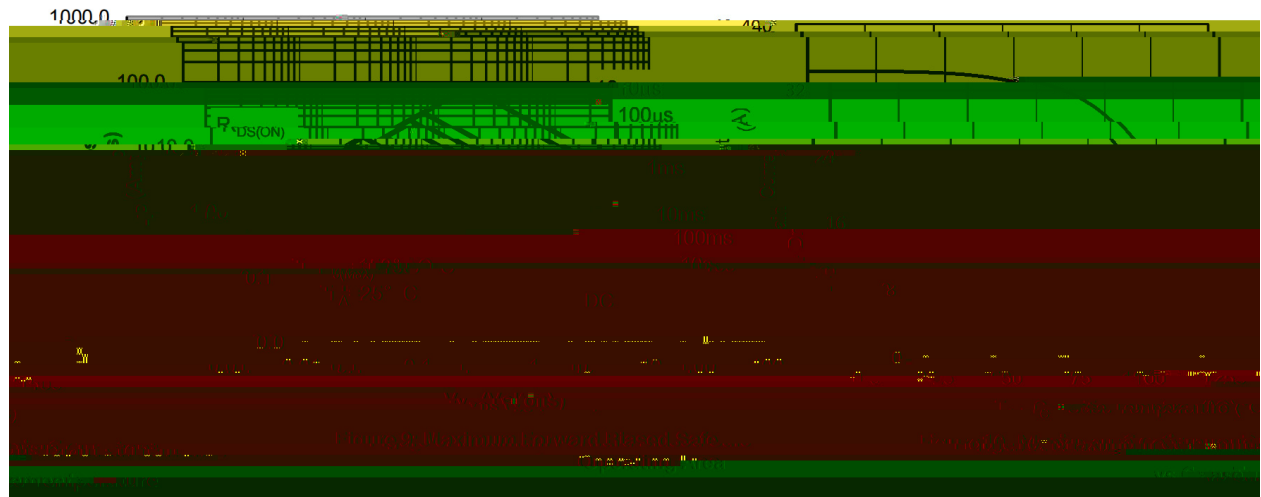
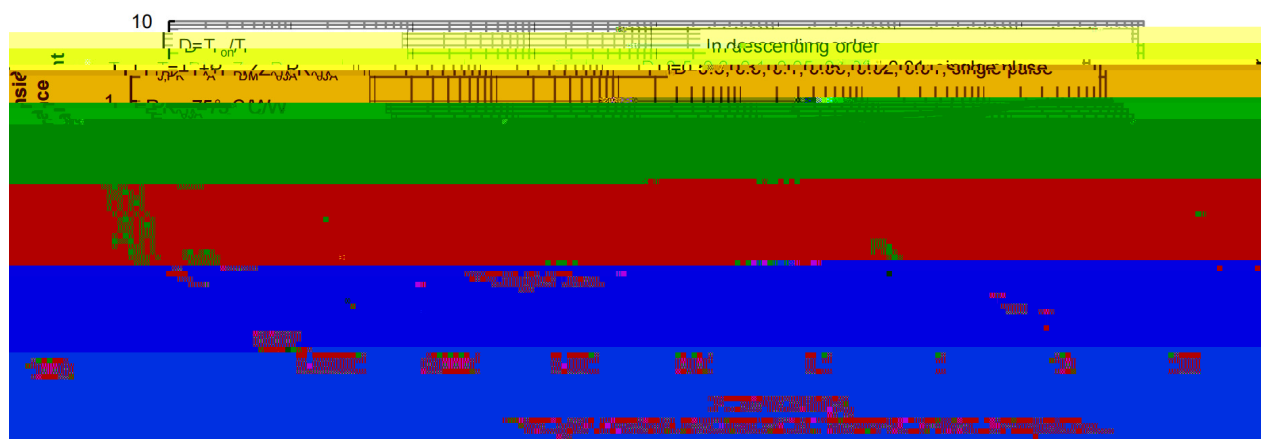
出脚	定义
Pin1	S
Pin2	G
Pin3	D
Pin4	S
Pin5	G
Pin6	D
Pin7	S
Pin8	G

See Marking Instructions.

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	-30	V
Drain Current		$I_D(T_C=25^\circ\text{C})$	-34	A
Drain Current - Pulsed		I_{DM}	-80	A
Gate-Source Voltage		V_{GS}	± 20	V
Single Pulsed Avalanche Energy		E_{AS}	210	mJ
Avalanche Current		I_{AS}	-20	A
Power Dissipation		$P_D(T_C=25^\circ\text{C})$	29	W
Operating and Storage Temperature Range		T_J, T_{stg}	-55 to 150	
Junction-to-Ambient	$t \leq 10$	R_{JA}	40	/W
Junction-to-Ambient	Steady-State		75	
Junction-to-Case	Steady-State	R_{JC}	4.2	

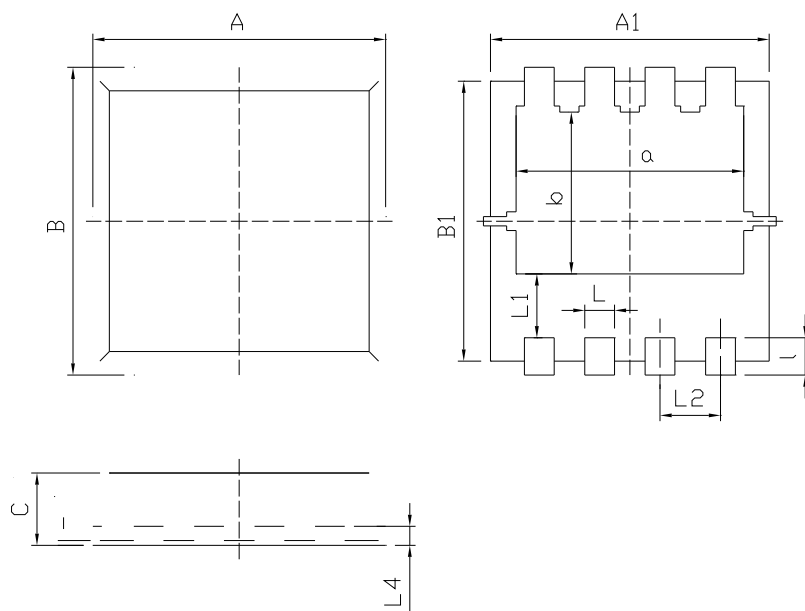
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\text{ A}$ $V_{GS} = 0V$	-30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -30V$				





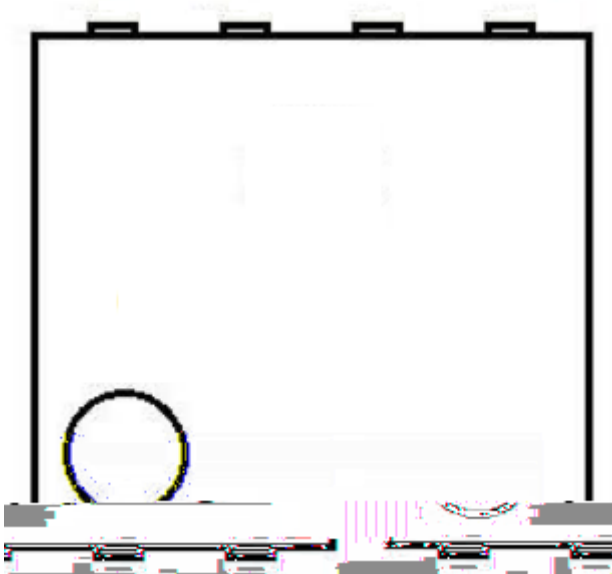
PDFN3X3A-8L

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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BRχ

Qχ

140P03χ

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Note:

BR:

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⌘ ∩ ϭ ḡ ƒ β %٠ √

⌘ ٣ " Γϭ

⌘ 1 ƒ ḡ " Γϭ 1 ϭ 1 ƒ ḡ " Ψ ϭ

Temperature Profile for IR Reflow Soldering(Pb-Free)

备注：

Note:

1. 预热 150~200℃，时间 60~120sec;

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

2. 峰值 255±5℃，时间 5~0.5sec;

2.Peak Temp.:255±5℃, Duration:5~0.5sec.

3. 冷却速度 2~10℃/sec.

3. Cooling Speed: 2~10℃/sec.

峰值 260±5℃

时间 10±1 sec.

Temp.:260±5

Time:10±1 sec

单位 / REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box