

SGIQ6Ö6D0;0 M M S P R V J Q Z 1

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

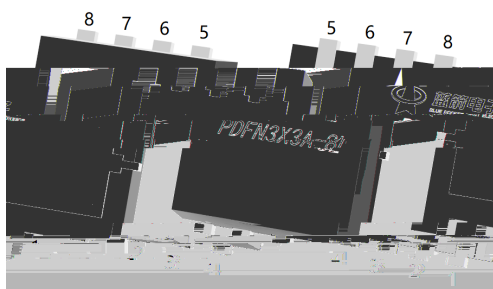
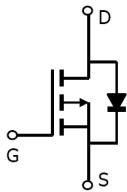
$V_{DS} (V) = -30V$

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

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

1 T DHF0T434 % ' I Ö ð i ñ f ß 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.

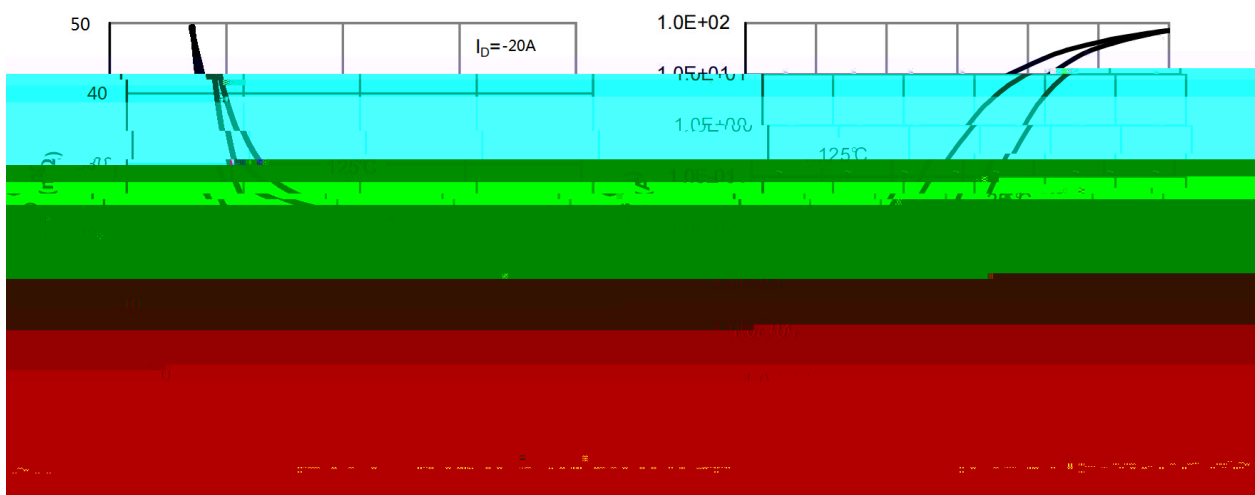
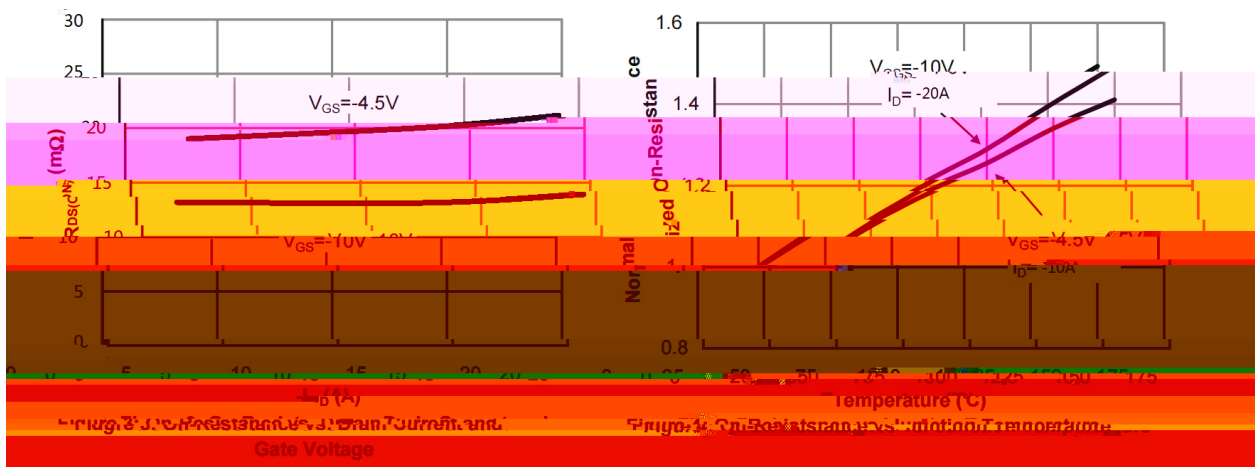
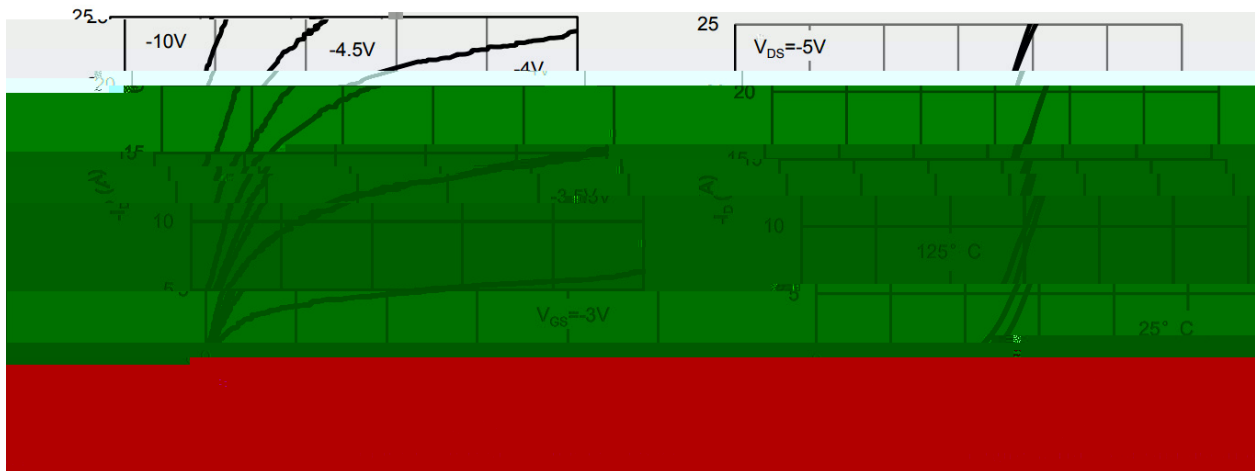


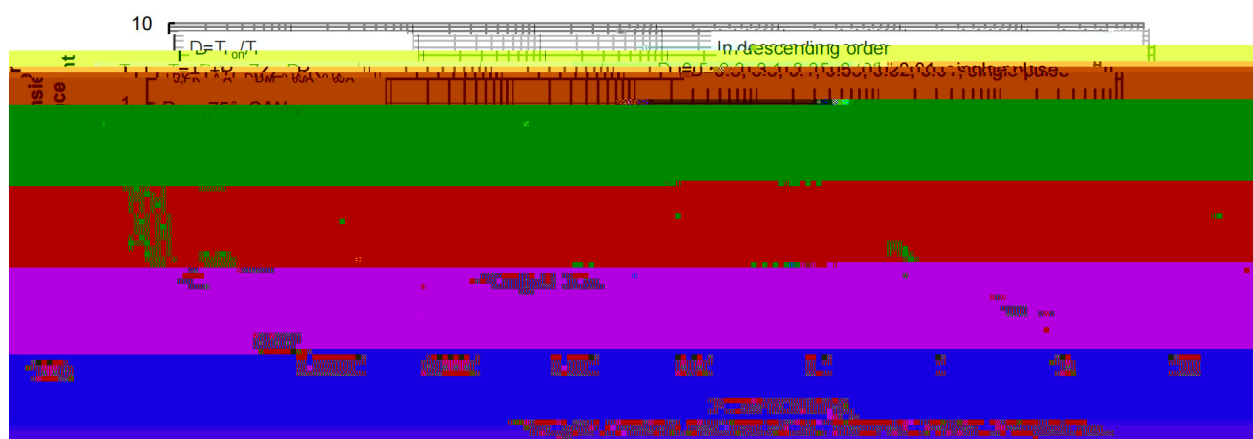
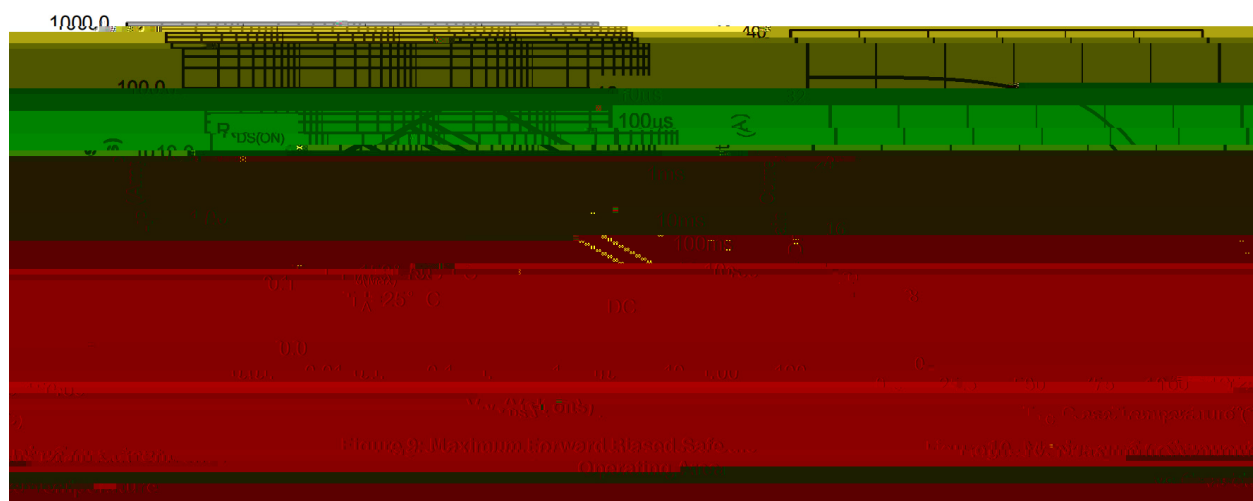
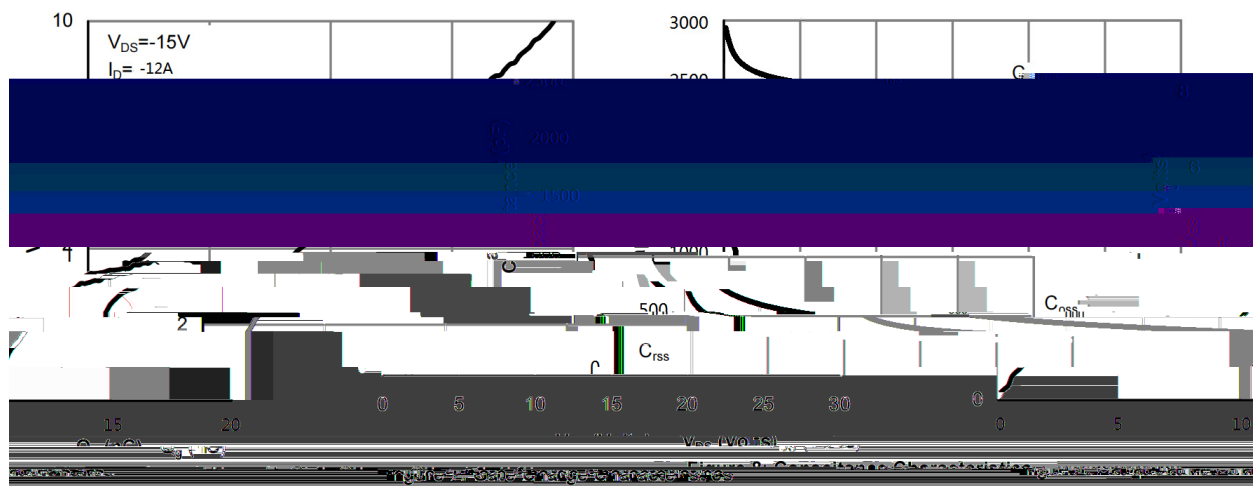
出脚	定义
Pin1	S
Pin2	G
Pin3	D
Pin4	S
Pin5	G
Pin6	D
Pin7	S
Pin8	G

M 1 " 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	

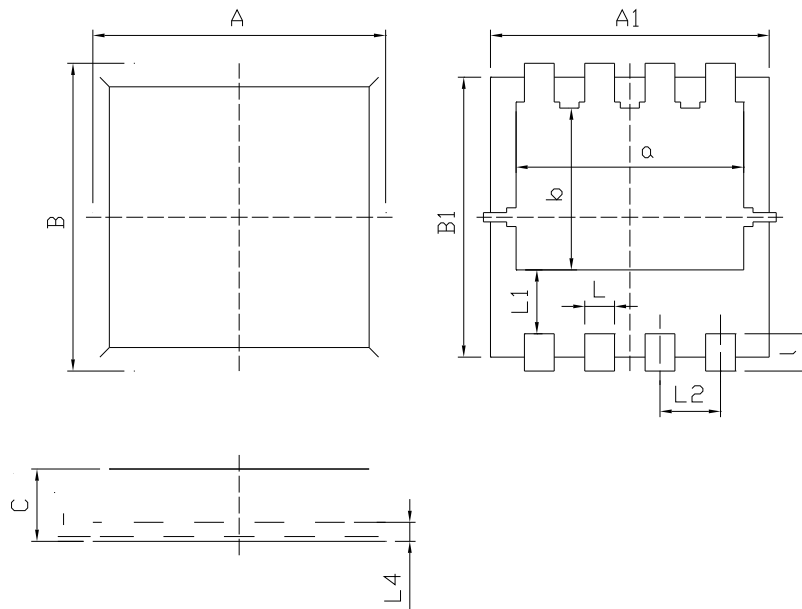
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\text{ A}$ $V_{GS} = 0V$	-30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -30V$				





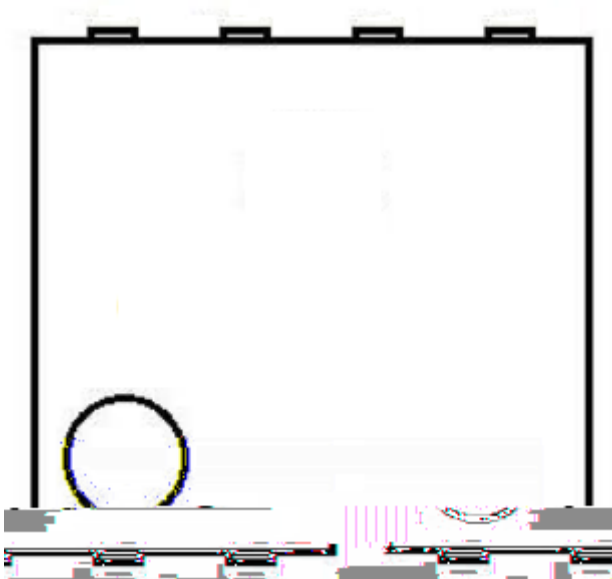
PDFN3X3A-8L

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



” X
BR X ƛ 3 Ⅳ Γ ɔ
Q X ƛ 0 Ȧ ƒ β ‰
140P03 X ƛ 3 Ⅳ Γ ɔ
---- X ƛ 1 ƒ Ȧ Ⅳ Γ ɔ 1 1 ƒ Ȧ Ⅳ Ψ ρ
Note:
BR:

Temperature Profile for IR Reflow Soldering(Pb-Free)

注

Note:

- | | |
|-----------------------------------|---|
| 1. 预加热: 150~200 ℃, 时间: 60~120sec; | 1. Preheating: 150~200 ℃, Time: 60~120sec. |
| 2. 峰值温度: 255±5 ℃, 持续时间: 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. |

□ 260±5 ℃	时间: 10±1 sec.	Temp.: 260±5	Time: 10±1 sec
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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