

5 é / Descriptions

6 *, 4 ~ ' 2.> // x 4 ?ú 3 3 5 9 « | •'ož
N-Channel Enhancement Mode Field Effect Transistor in a PDFN3~3A-8L Plastic Package.

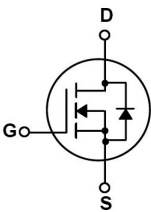
□ª / Features

$V_{DS}(V) = 60V$
 $I_D = 24\text{ A } (V_{GS} = f\ 20V)$
 $R_{DS(ON)}@10V\ 0.13mR(Typ.11.5mR)$
—)í D }ož HF Product.

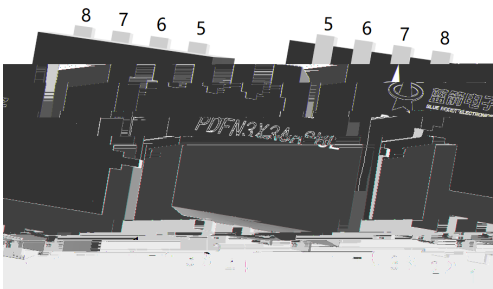
Đ ÷ / Applications

9 ä ä *) *) ô E y ä •¼ož
These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

Ã W] Ô · / Equivalent Circuit



•Û - æ / Pinning



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

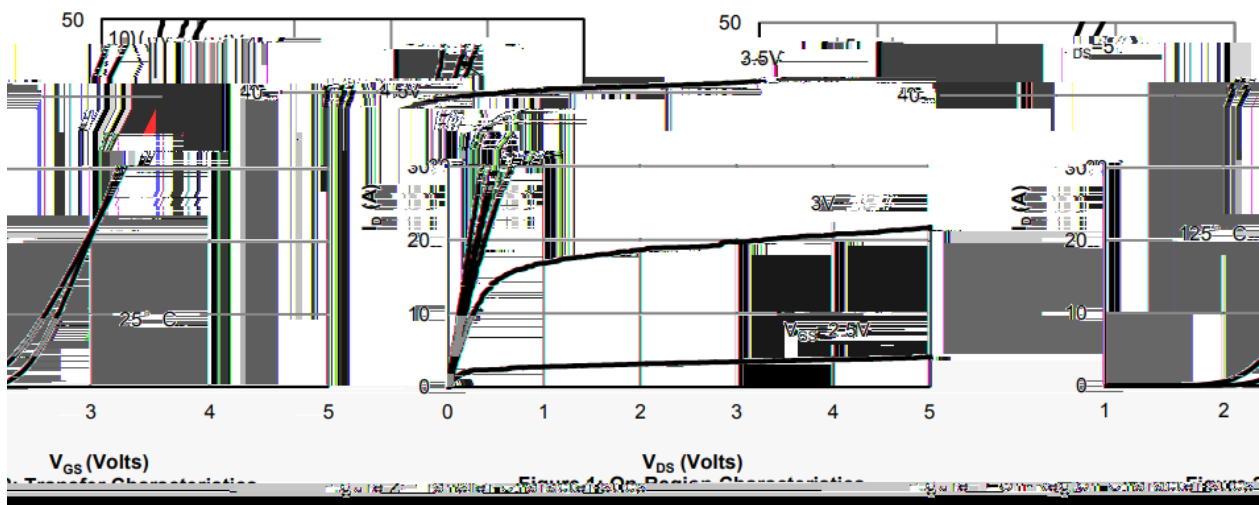
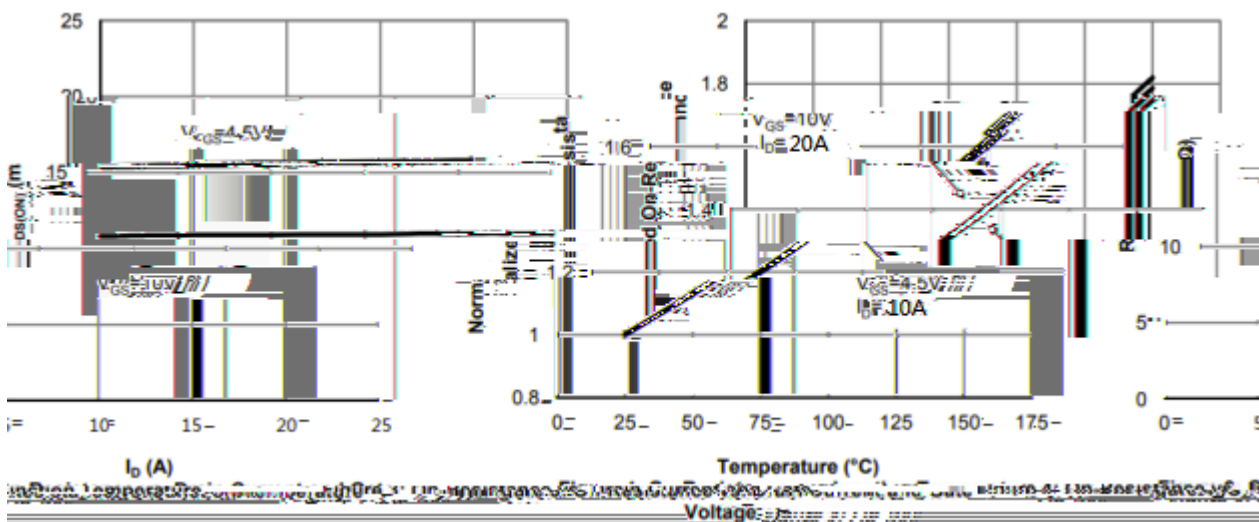
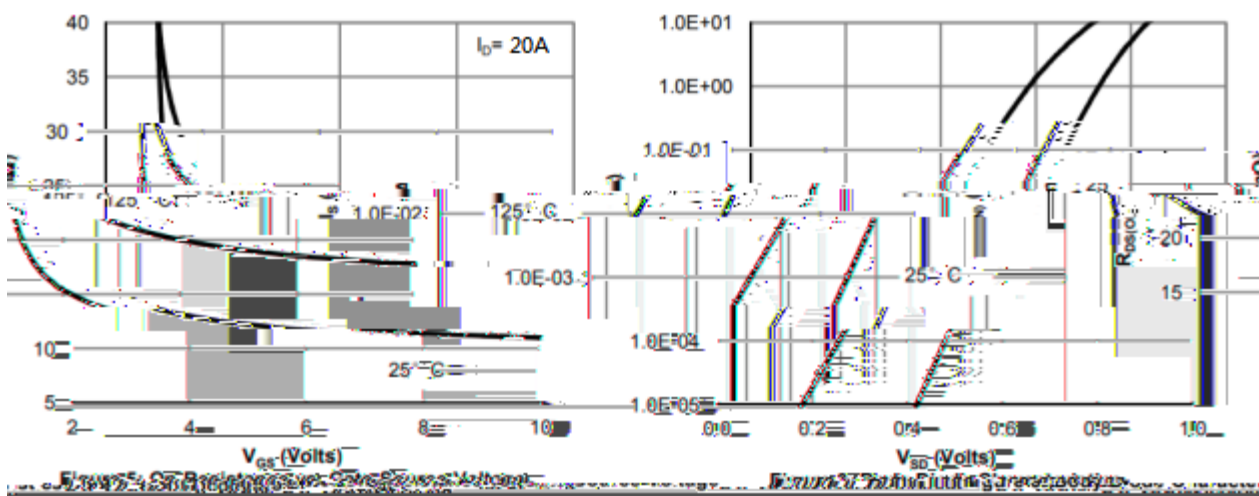
, M V / Marking

• - ~ª ¢ož
See Marking Instructions.

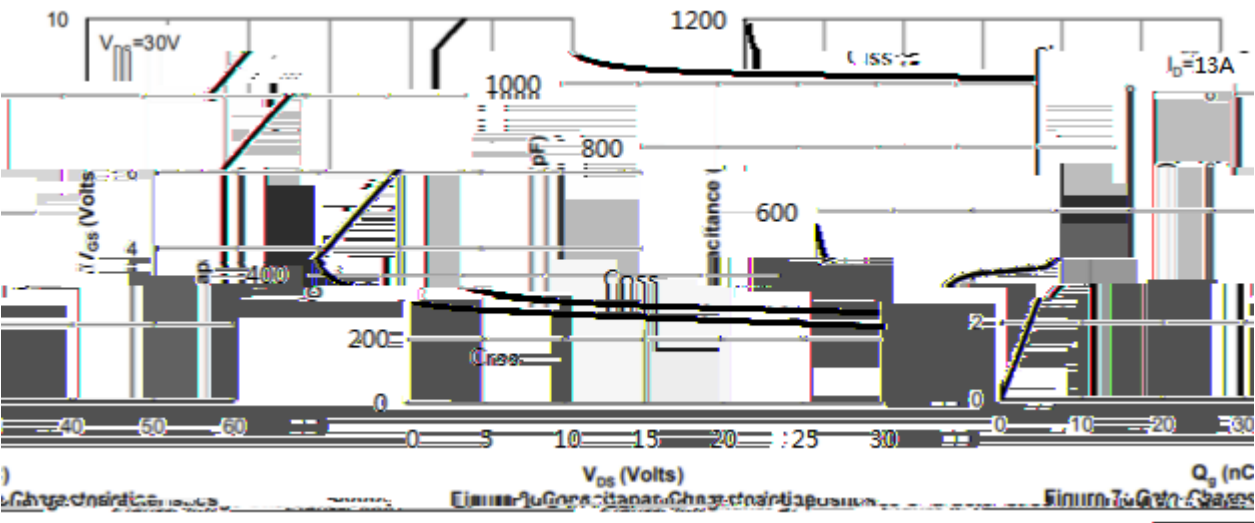
@ f Parameter		... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage		V _{DSS}	60	V
Drain Current		I _D (T _c =25 °C)	24	A
Drain Current - Pulsed		I _{DM}	90	A
Gate-Source Voltage		V _{GSS}	±20	V
Single Pulsed Avalanche Energy		E _{AS}	70	mJ
Avalanche Current		I _{AS}	20	A
Power Dissipation		P _D (T _c =25 °C)	24	W
Operating and Storage Temperature Range		T _J , T _{stg}	-55 to 150	
Junction-to-Ambient	t 0 10	R _{JA}	30	/W

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V I _D =250 A	60	64		V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V V _{GS} =0V			1	A
Gate-Body Leakage Current Forward	I _{GSS}	V _{GS} =±20V V _{DS} =0V			±0.1	A
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} I _D =250 A	1.0	1.6	2.5	V
Static Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =10V I _D =20A		11.5	13	m
		V _{GS} =4.5V I _D =10A		15.5	18	m
Drain-Source Diode Forward Voltage	V _{SD}	V _{GS} =0V I _S =1A			1.2	V
Input Capacitance	C _{iss}	V _{DS} =25V V _{GS} =0V f=1.0MHz		1010		pF
Output Capacitance	C _{oss}			250		
Reverse Transfer Capacitance	C _{rss}			280		

Electrical Characteristic Curve

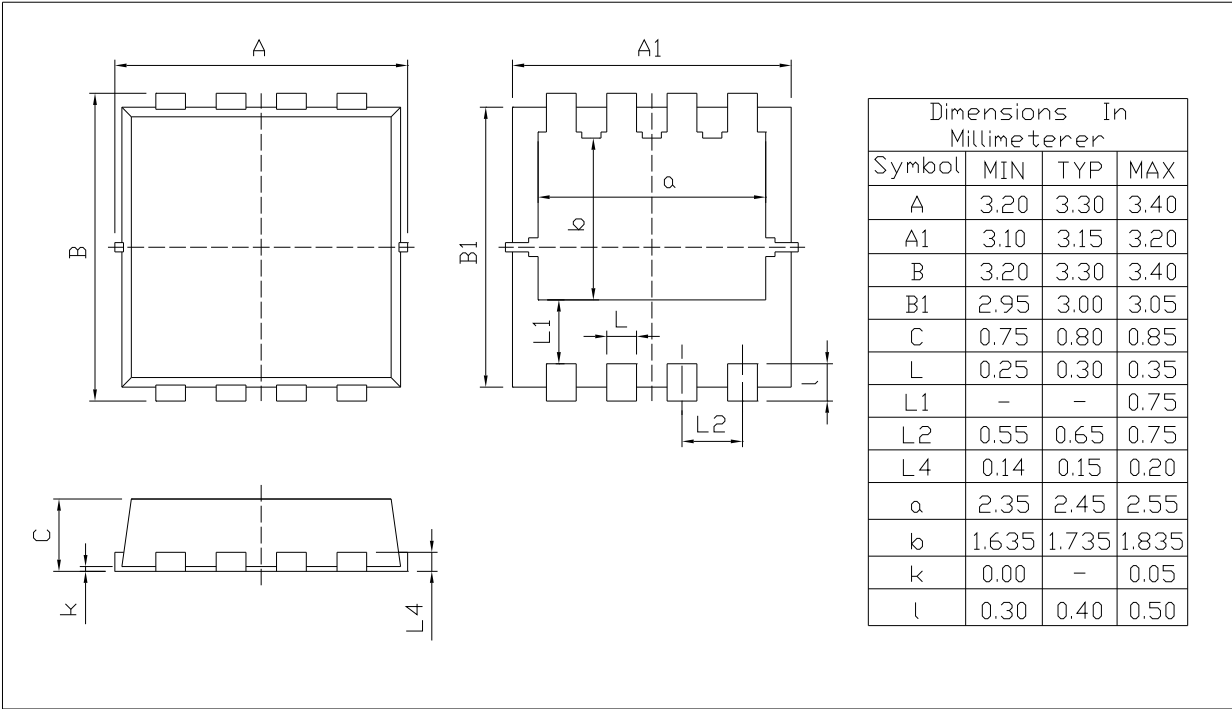


Electrical Characteristic Curve



Ø □ =) ☎ / Package Dimensions

PDFN3X3A-8LUnit:mm



Rev.00 202011

, M y f / Marking Instructions



Marking Instructions

BR y , [W A

120N06 y ° Z W A

 y ÿ D Z W A k š ÿ D Z J

Note:

BR: Company Code

120N06: Product Type Code

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

šWD t...•Ž¢ (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

a ¢ y

- 1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;
- 2o• Q > “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit Åmm³)	
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box y , %ssr 31á "" :! ¢ 0¢ `% @ A @