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 A (V_{GS} = f 20V)

$R_{DS(ON)}$@10V 0 13mR(Typ.11.5mR)

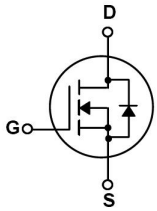
—)í D }ož HF Product.

Đ ÷ / Applications

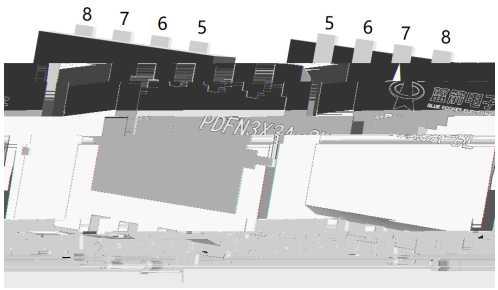
9 ä ä *) *) ô E y ä • ¼ož

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	S

, M V / Marking

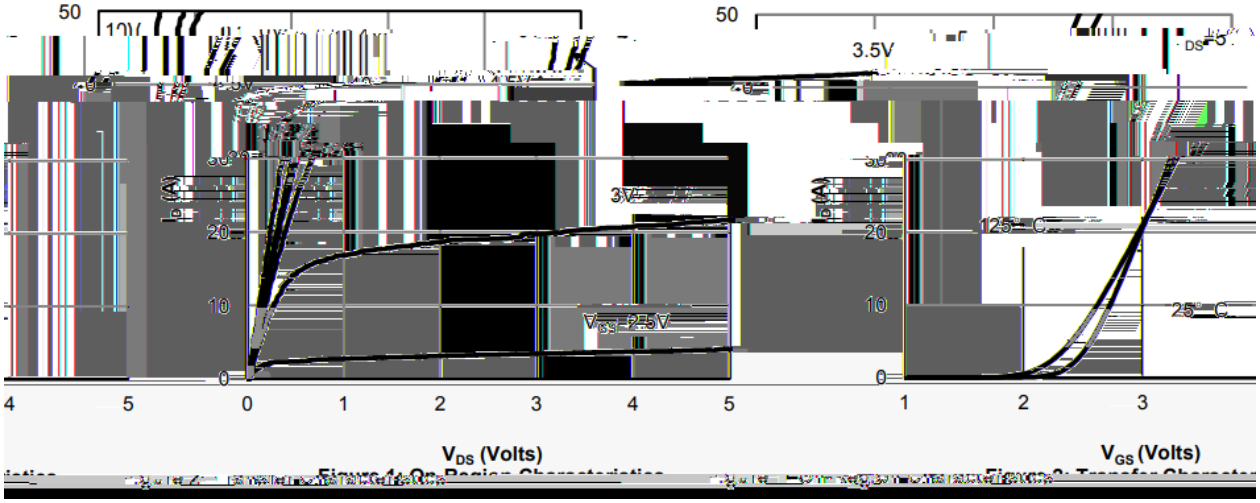
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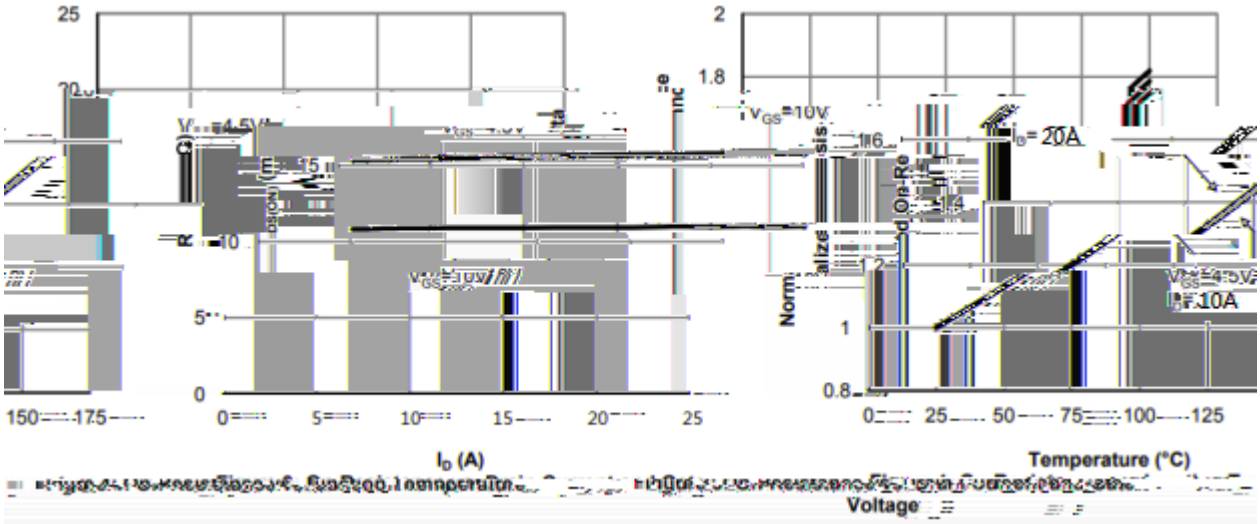
See Marking Instructions.

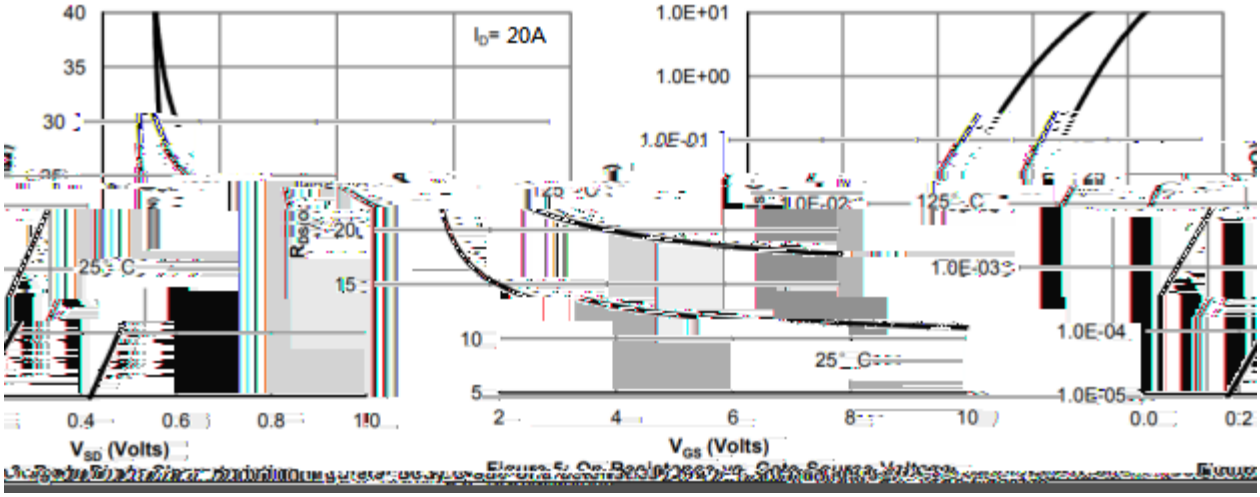
@ *f* Parameter		… Z Symbol	*f* › Rating	% y Unit
Drain-Source Voltage		V_{DSS}	60	V
Drain Current		I_D(Tc=25)	24	A
Drain Current - Pulsed		I_{DM}	90	A
Gate-Source Voltage		V_{GSS}	±20	V
Single Pulsed Avalanche Energy		E_{AS}	70	mJ
Avalanche Current		I_{AS}	20	A
Power Dissipation		P_D(Tc=25)	24	W
Operating 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 ¡ Ú ^ Test Conditions		Â 4 › Min	Á º › 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 f=1.0MHz	V_{GS}=0V		1010		pF
Output Capacitance	C_{oss}				250		
Reverse Transfer Capacitance	C_{rss}				280		

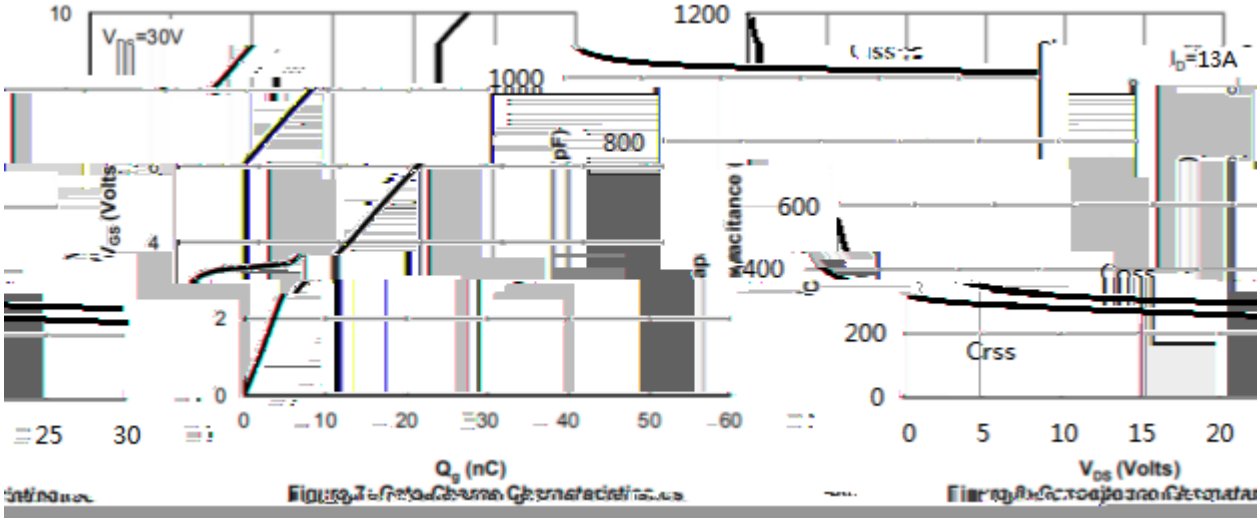
Ô ? d • Ž ¢ / Electrical Characteristic Curve







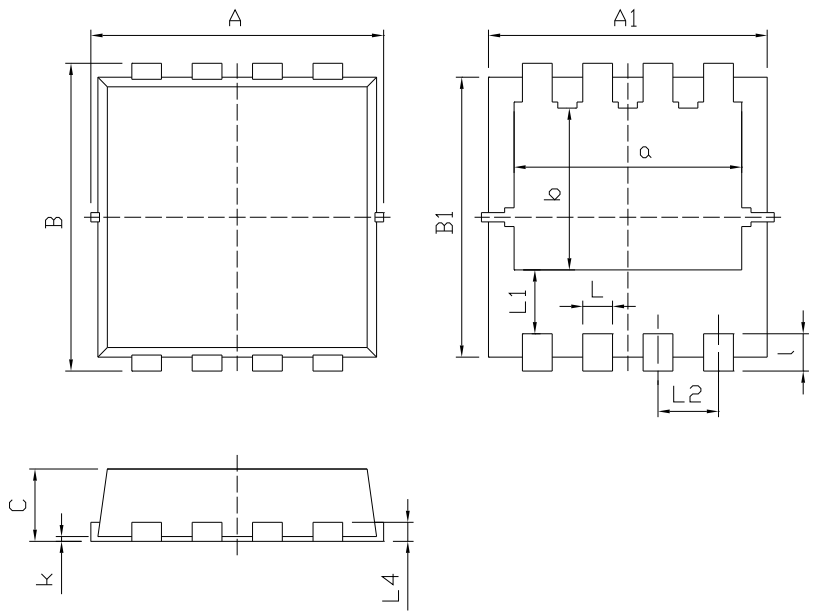
Ô ? d • Ž ¢ / Electrical Characteristic Curve



Ø ¤ =) ¢ / Package Dimensions

PDFN3X3A-8L

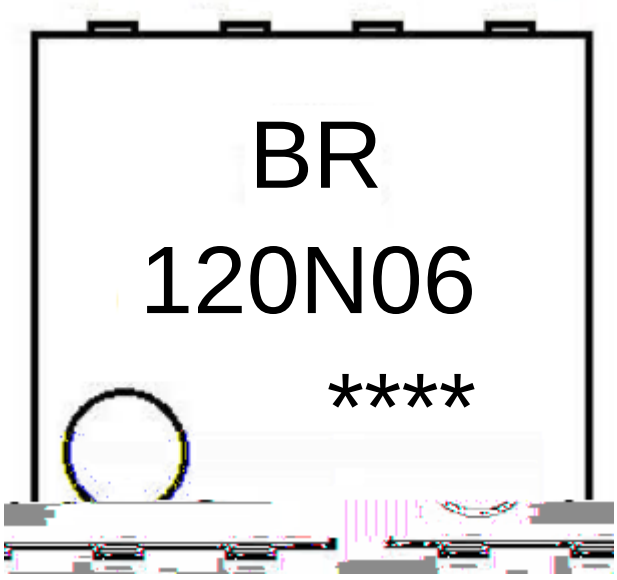
Unit:mm



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

, M y ƒ / Marking Instructions



ª ¢ y

BR y ¸ [W A

120N06 y º 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

š WD t … • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 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 ÆEmm³)	
	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 @