/ Descriptions

PDFN3×3A-8L N MOS

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

/ Features

V_{DS} (V) = 40V

I_D =82A (V_{GS} = ±20V)

$R_{DS(ON)}$@10V 3mR(Typ.2.5mR)

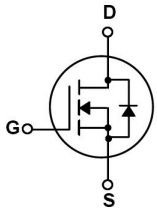
$R_{DS(ON)}$@4.5V 5mR(Typ.3.5mR)

AEC-Q101 Qualified to AEC-Q101 Standards for High Reliability, HF Product.

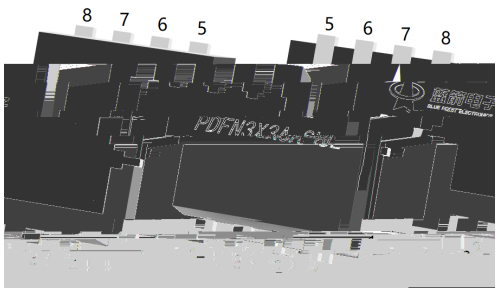
/ Applications

Load Switch Applications,Battery Power Management, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



出脚	定义
Pin1	S
Pin2	S

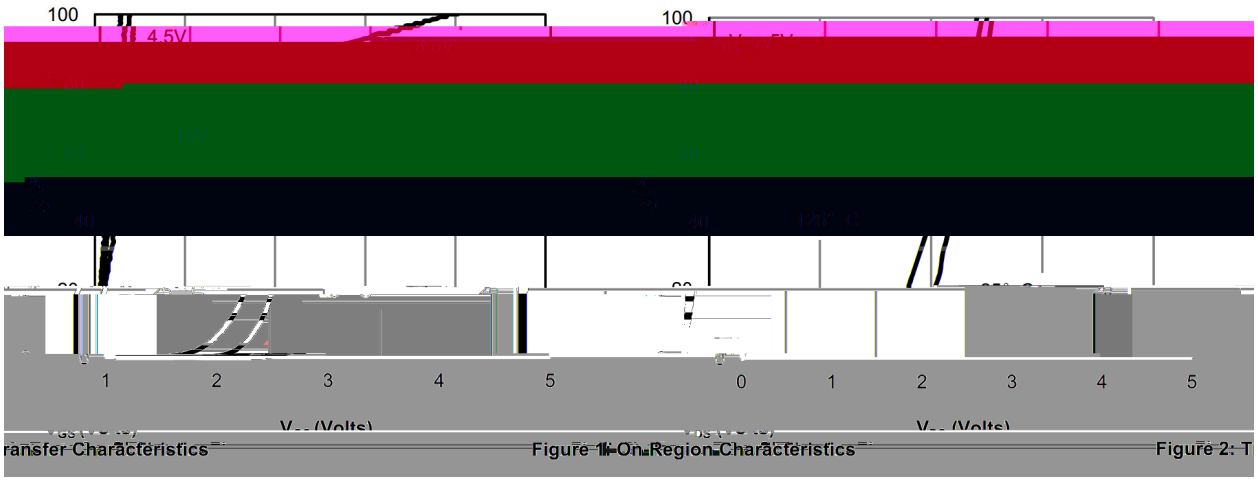
/ Marking

See Marking Instructions.

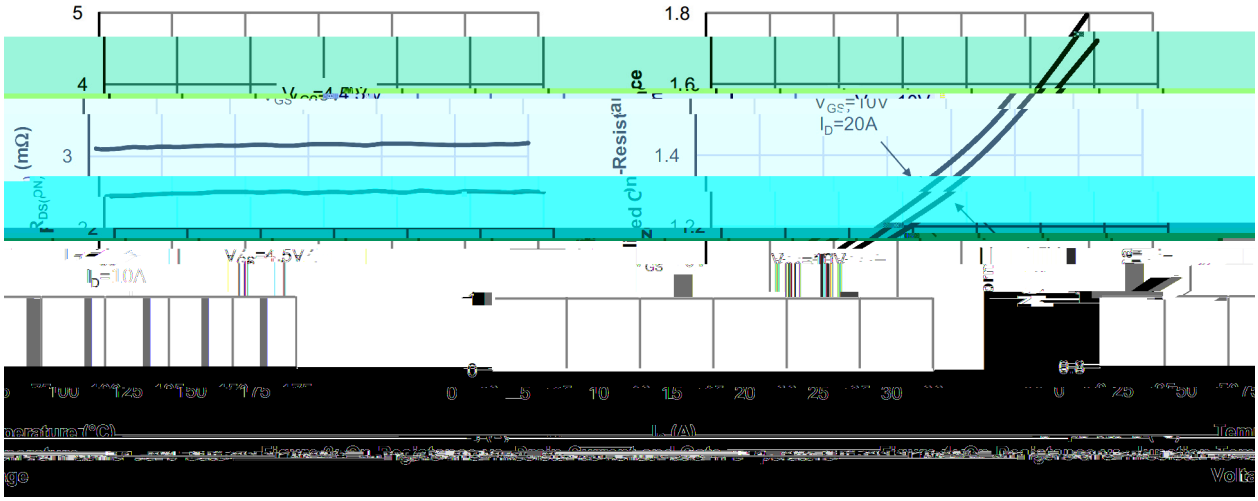
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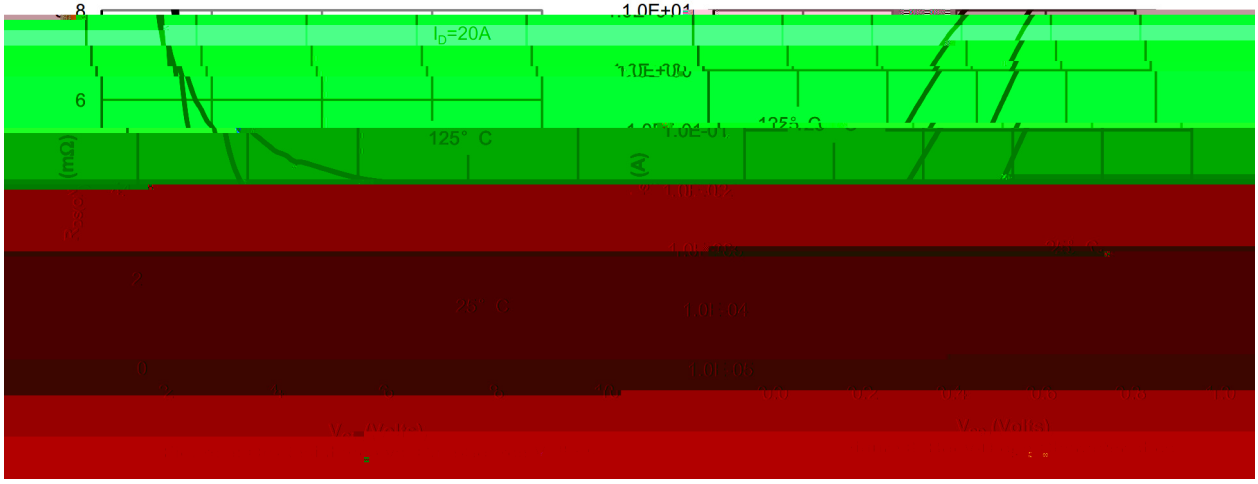
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit

/ Electrical Characteristic Curve



ransfer Characteristics Figure 1: On-Region Characteristics Figure 2: T





/ Electrical Characteristic Curve

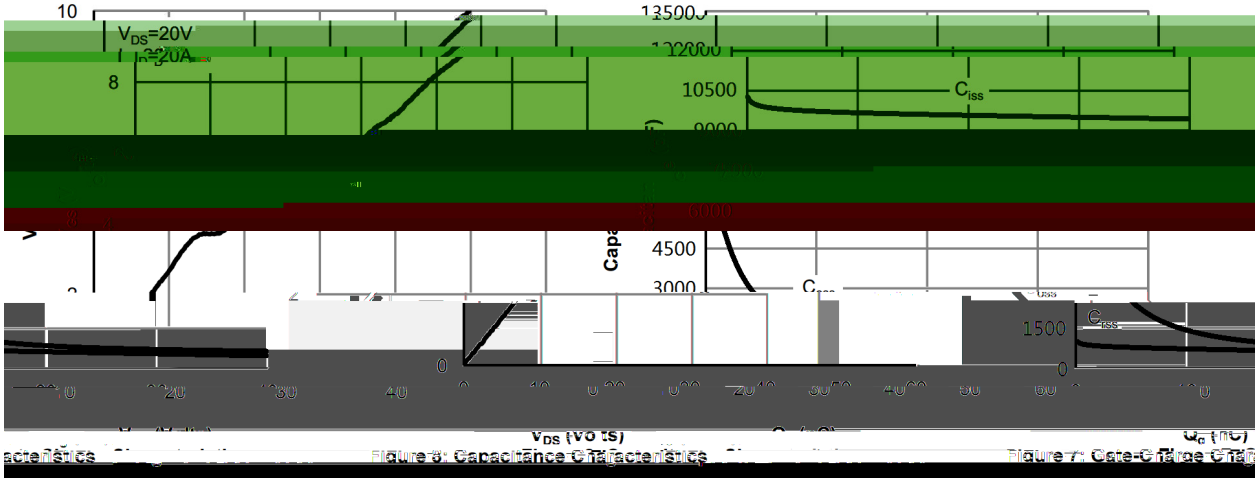
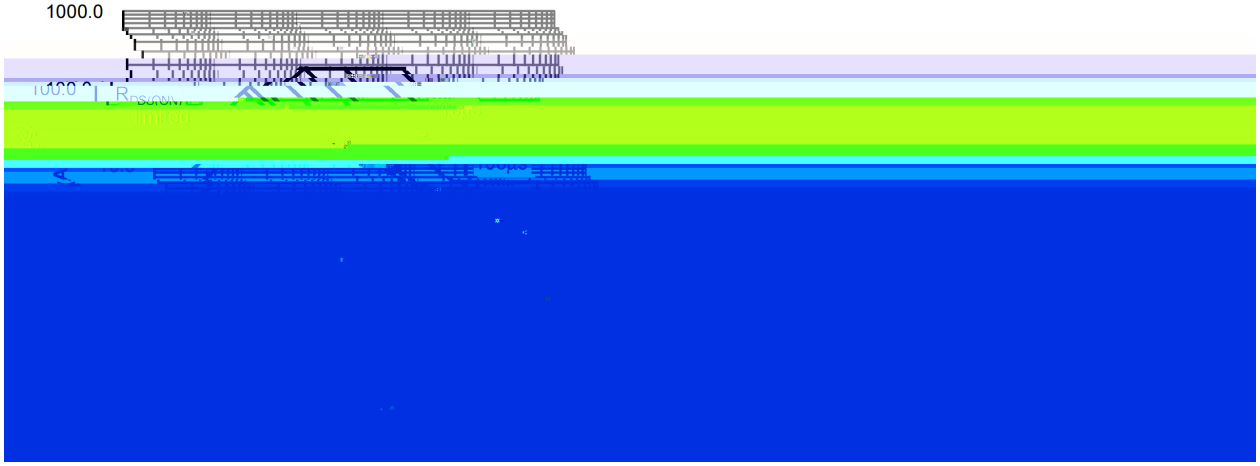
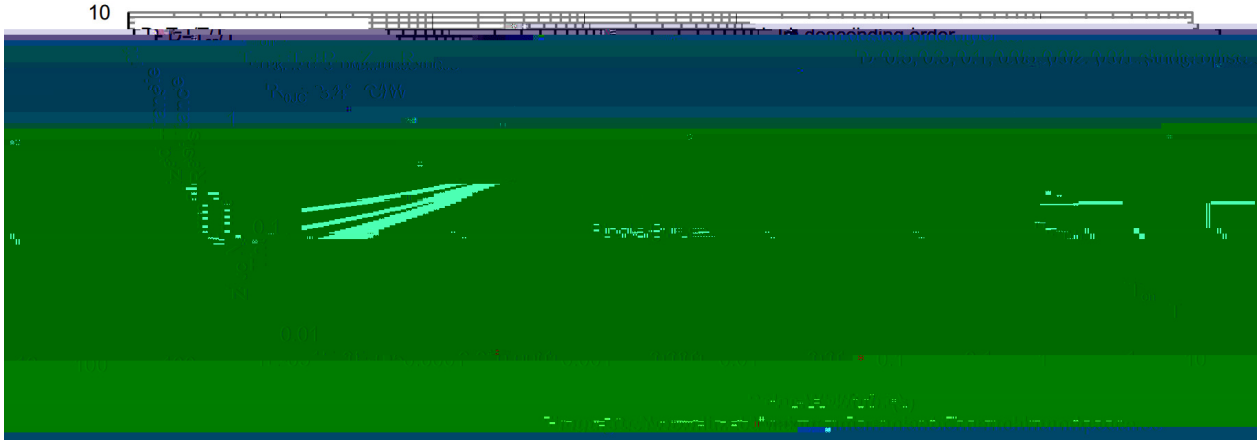


Figure 8: Capacitance Characteristics

Figure 7: Gate-Charge Characteristics

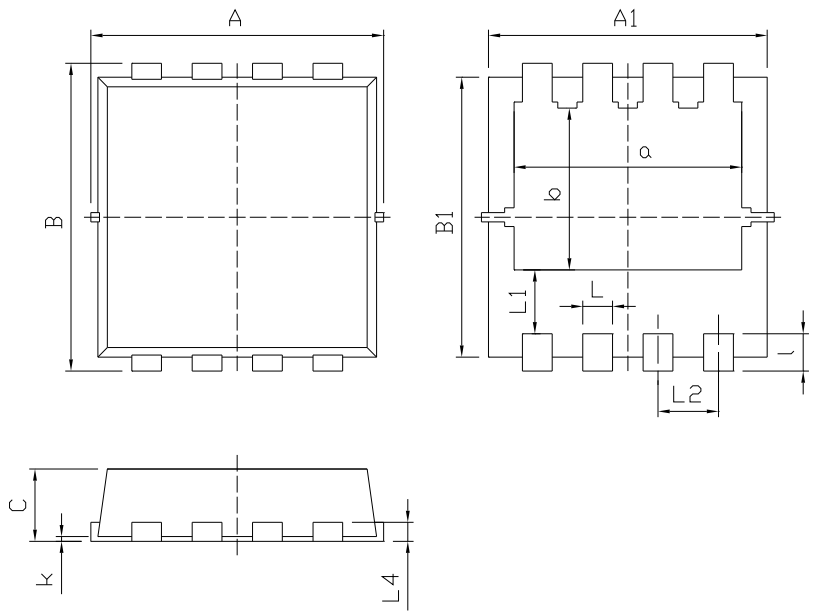




/ Package Dimensions

PDFN3X3A-8L

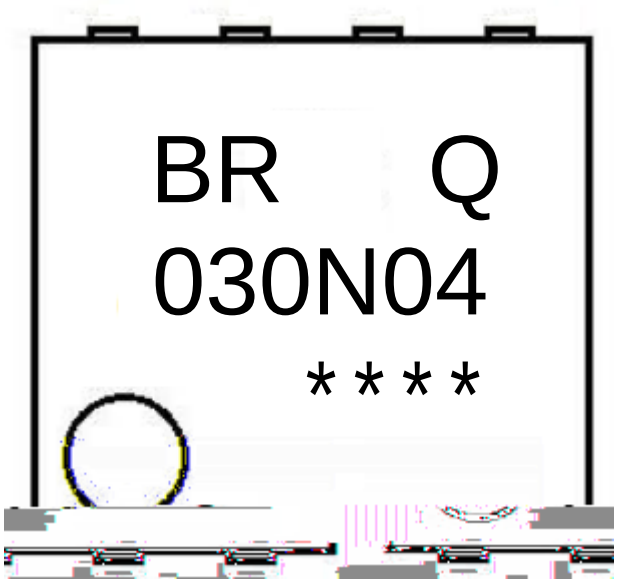
Unit:mm



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

/ Marking Instructions



BR

Q

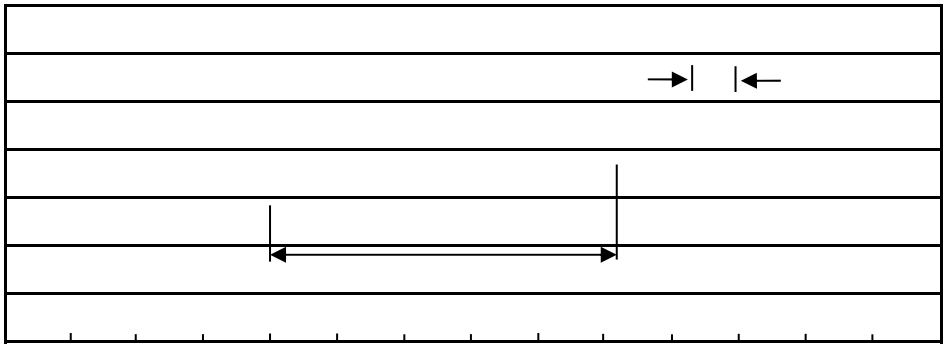
030N04

****

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
030N04:	Product Type Code
****:	Lot No. Code, code change with Lot No

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1	150 200	60 120sec;	1.Preheating:150~200	, Time:60~120sec.
2	255±5	5±0.5sec;	2.Peak Temp.:255±5	, Duration:5±0.5sec.
3	2 10 /sec.		3. Cooling Speed: 2~10 /sec.	

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
PDFN3×3A-8L	5,000	2	10,000	6	60,000	13 ×12	360×360×50	380×335×366

/ Notices