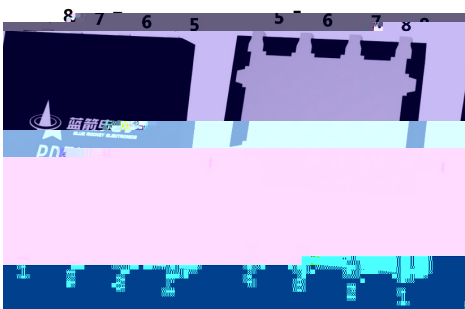
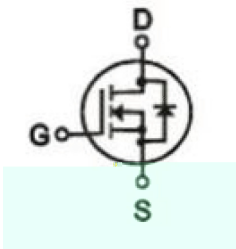


Rev.A Jul.-2024

PDFN5×6 N
N-Channel MOSFET in a PDFN5×6 Plastic Package.

$V_{DS}(V)=500V$ $I_D=1.7A$
 $R_{DS(ON)}@10V$ 3.5 (Typ. 2.8)
 Fast Switching.
 HF Product.

These devices are well suited for power switch circuit of adaptor and charger, intergrate fast recovery diode.



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	500	V
Drain Current	$I_D(T_C=25^\circ C)$	1.7	A
Drain Current - Pulsed	I_{DM}	5.5	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	112.5	mJ
Avalanche Current	I		

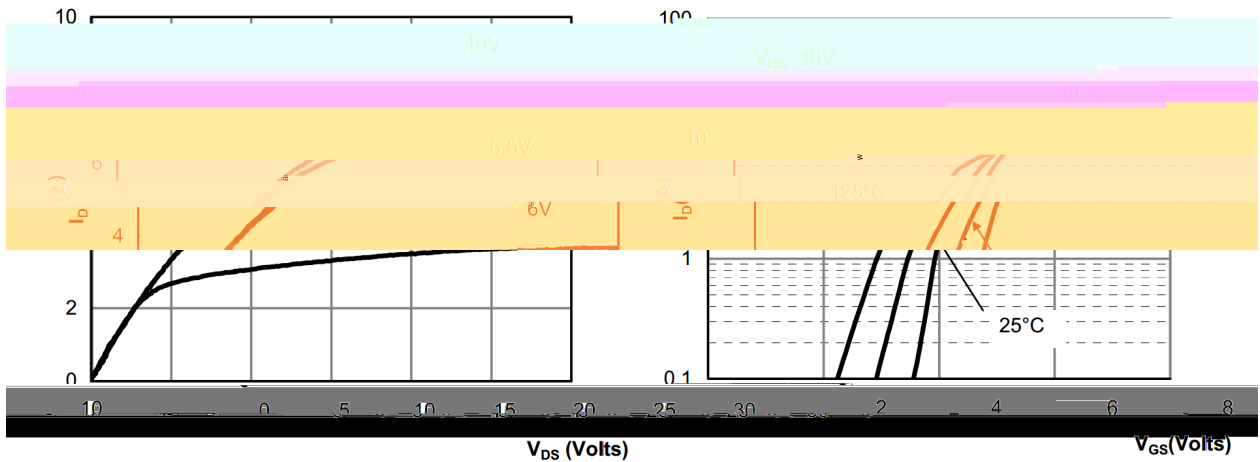


Figure 1: I_D Region Characteristics Figure 2: Transfer Characteristics

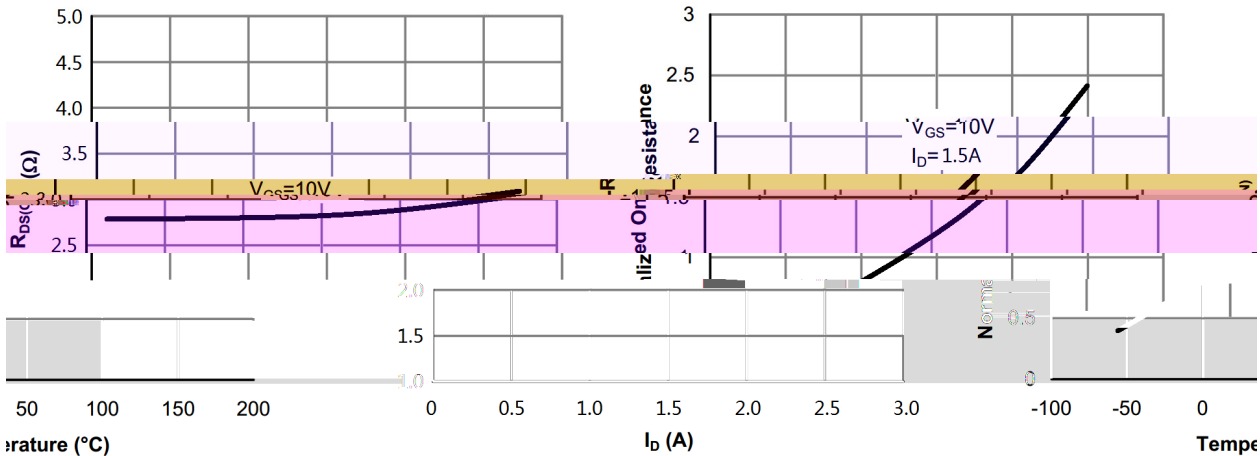
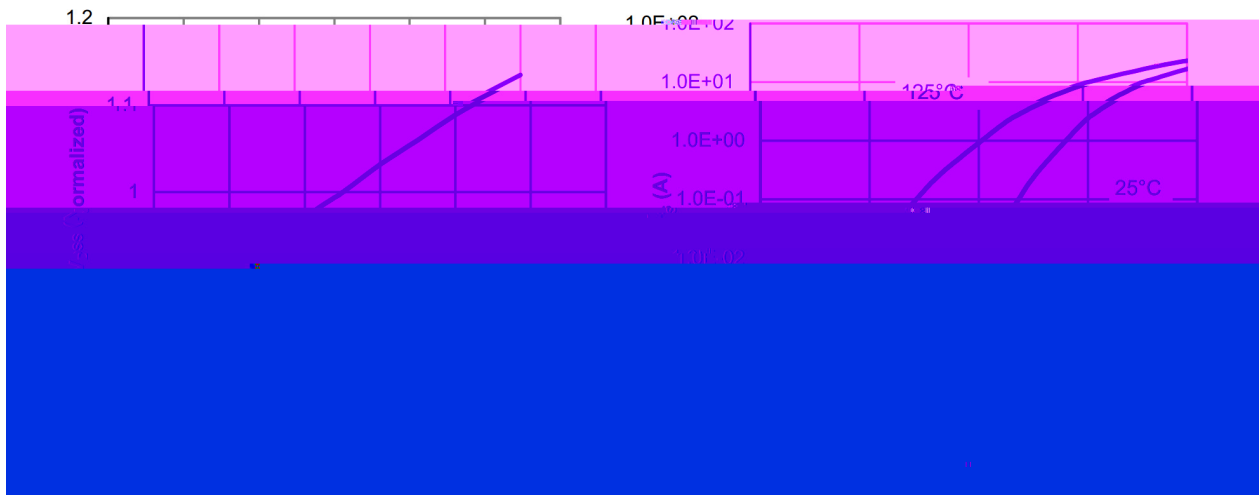
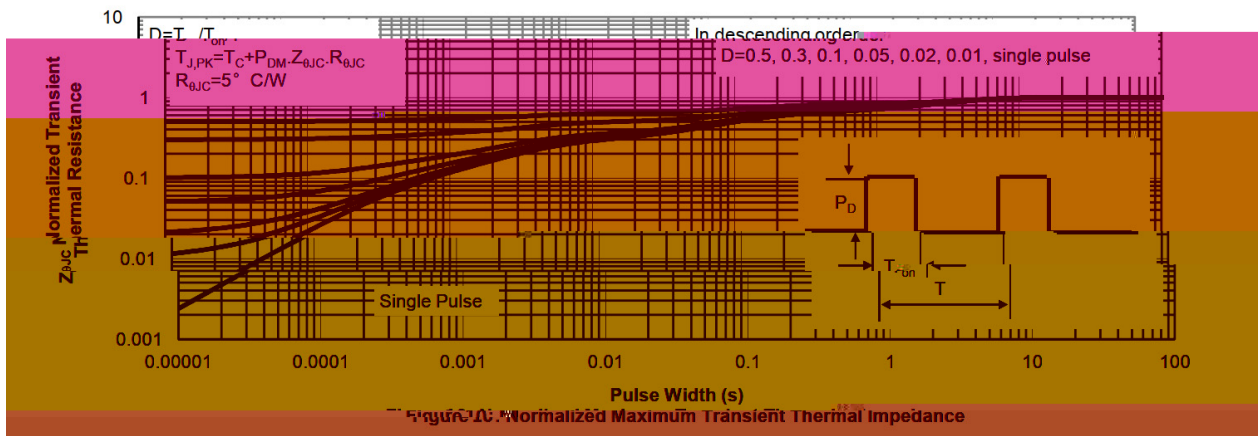
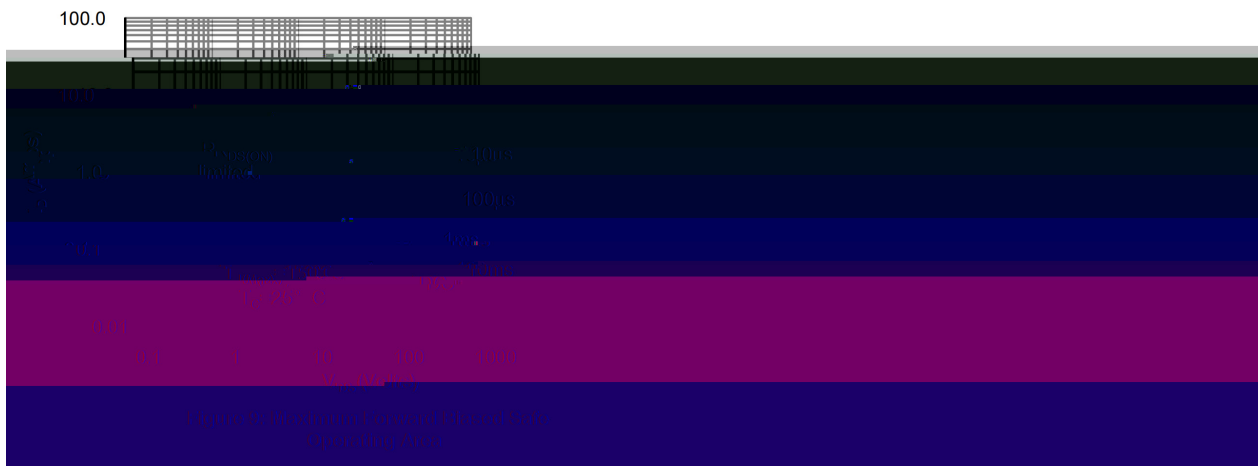
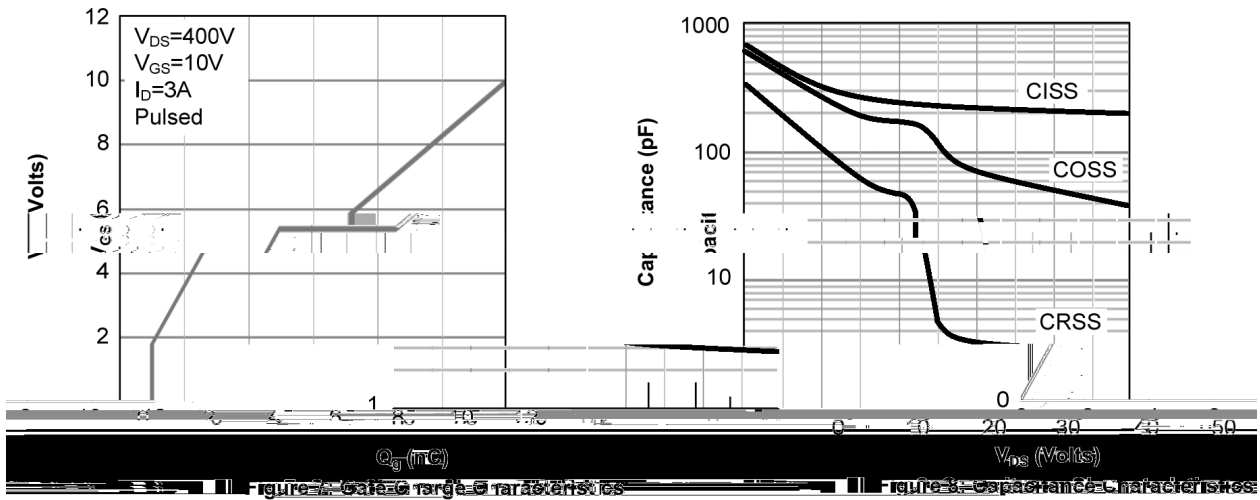


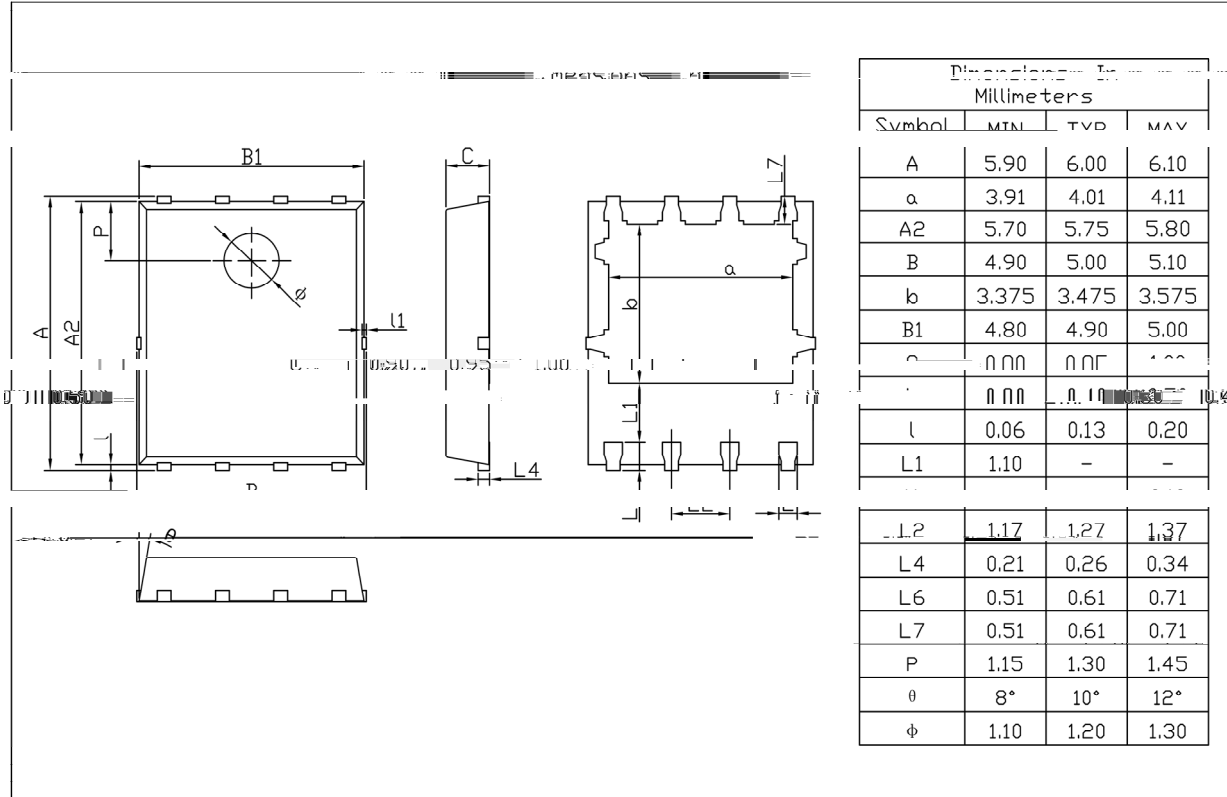
Figure 3: $R_{DS(on)}$ vs. Drain Current and Gate Voltage Figure 4: $R_{DS(on)}$ vs. Temperature



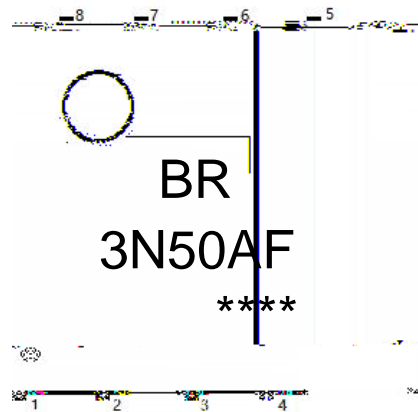


PDFN5 X6

Unit:mm



Rev.01 202209



BR

3N50AF

Note

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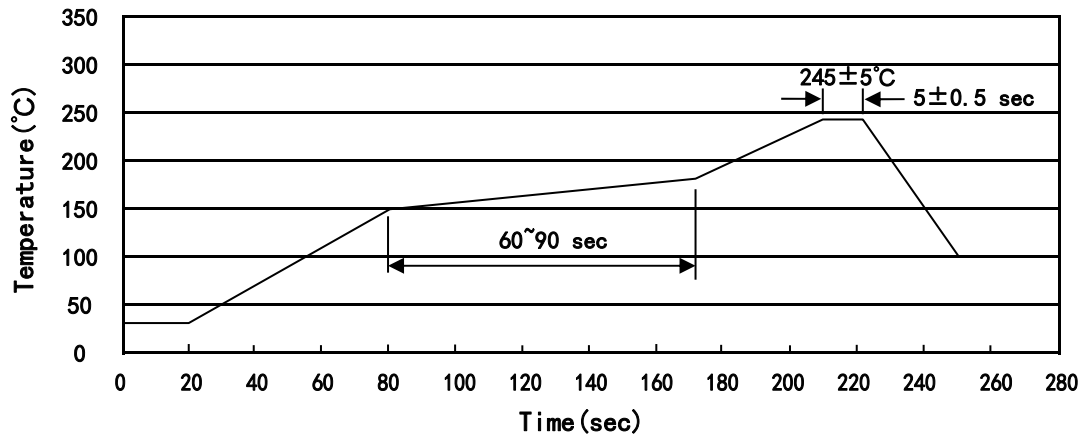
Company Code

3N50AF

Product Type Code

****:

Lot No. Code, code change with Lot No



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ 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
PDFN5x6	5,000	2	10,000	6	60,000	13"x12	360x360x50	380x335x366