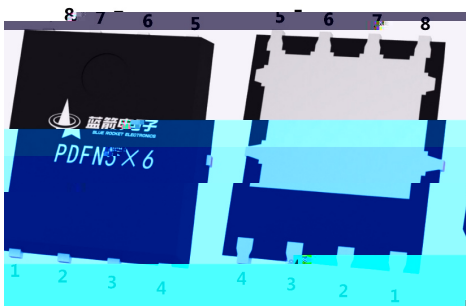
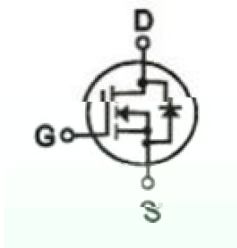


Rev.A Aug.-2025

PDFN5Ø6 N
N-Channel MOSFET in a PDFN5×6 Plastic Package.

$V_{DS}(V)=60V$ $I_D=80A$
 $R_{DS(ON)}@10V \leq 2.2m\Omega$ (Typ. $2.0m\Omega$)
 $R_{DS(ON)}@6V \leq 3.2m\Omega$ (Typ. $2.5m\Omega$)
 HF Product.

GF 0 GF
 Motor drivers, DC - DC Converter.



PIN1、2、3: S PIN4: G PIN5、6、7、8: D

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Continuous Drain Current*	$I_D(T_c=25^{\circ}\text{C})$	80	A
Pulsed Drain Current ^{*, **, ***}	I_{DM}	209	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	$P_D(T_c=25^{\circ}\text{C})$	156	W
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 175	$^{\circ}\text{C}$
Continuous-Source Current	I_S	80	A
Single Pulsed Avalanche Energy ($V_{DD}=50\text{V}$, $L=0.5\text{mH}$)	E_{AS}	506	mJ
Maximum Junction-to-Ambient*	$R_{\theta JA}$	38	/ W
Maximum Junction-to-Case*	$R_{\theta JC}$	1.1	

Notes:

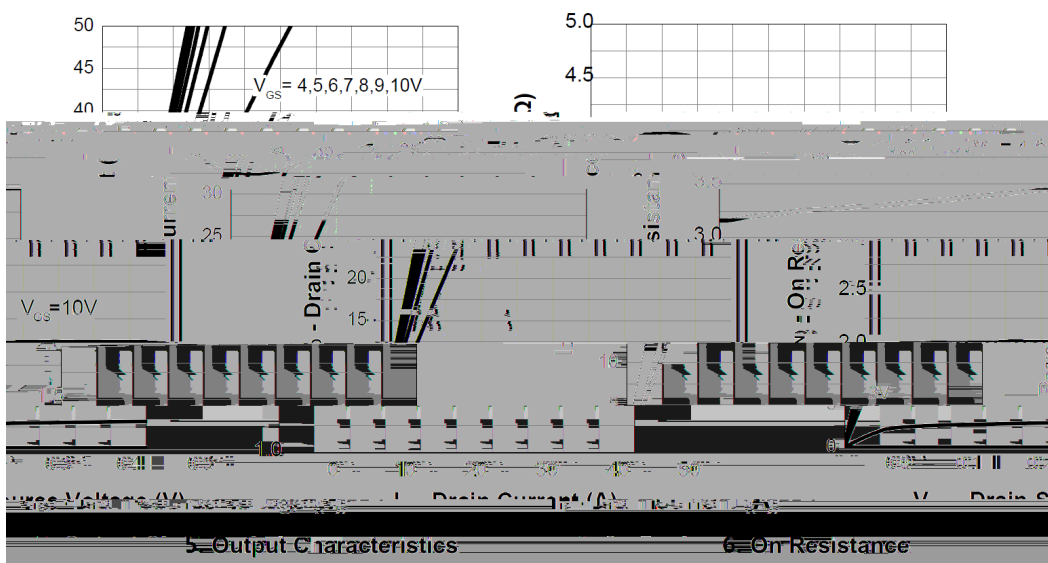
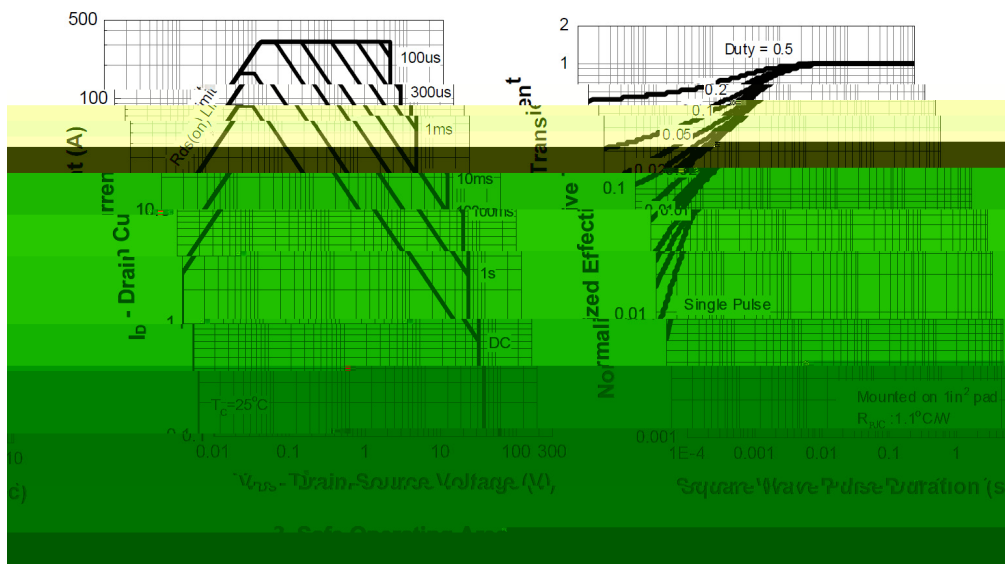
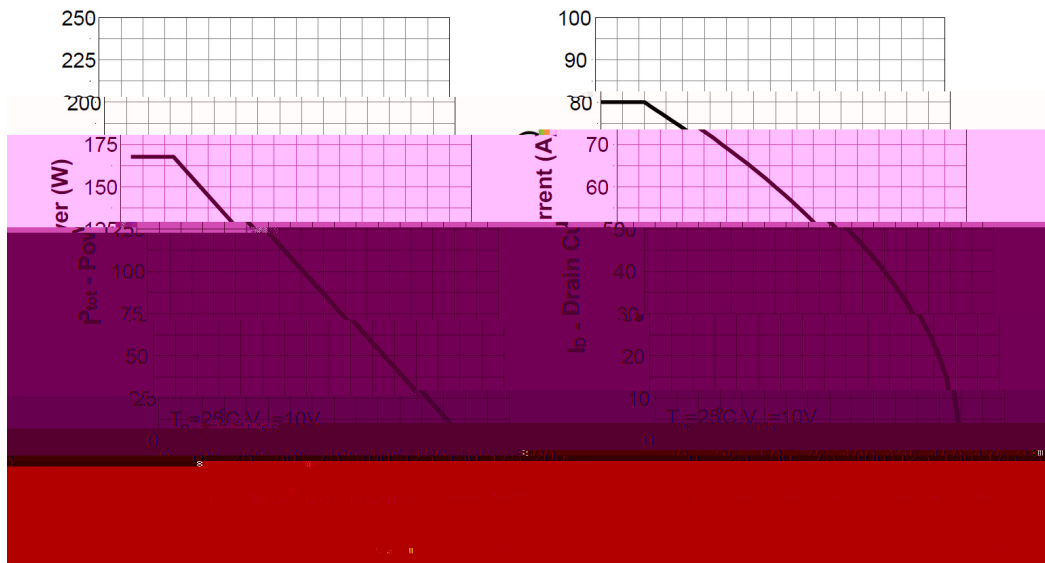
 * Surface Mounted on 1 in² pad area, $t \leq 10 \text{ sec}$

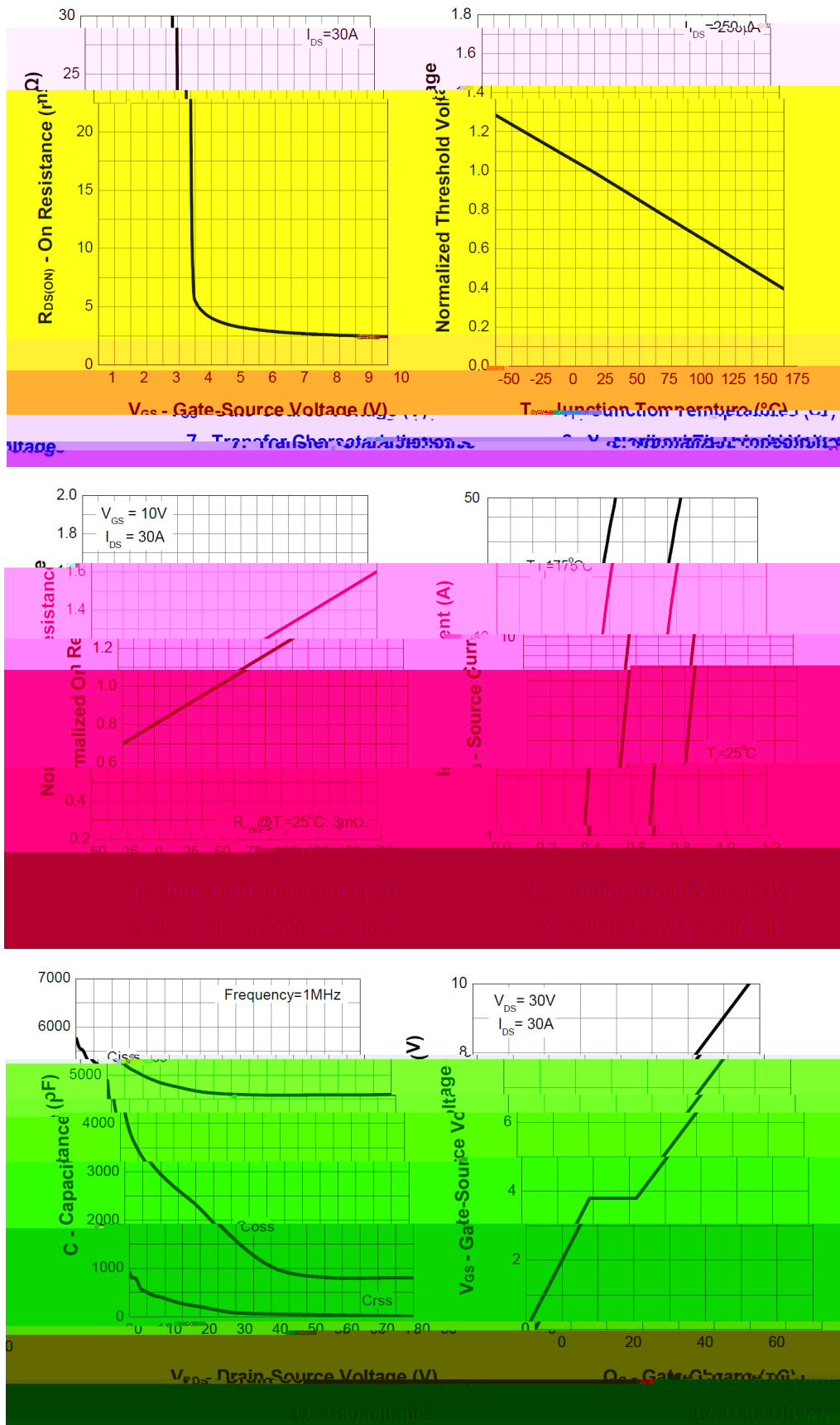
 ** Pulse width $\leq 300 \mu\text{s}$, duty cycle $\leq 2 \%$

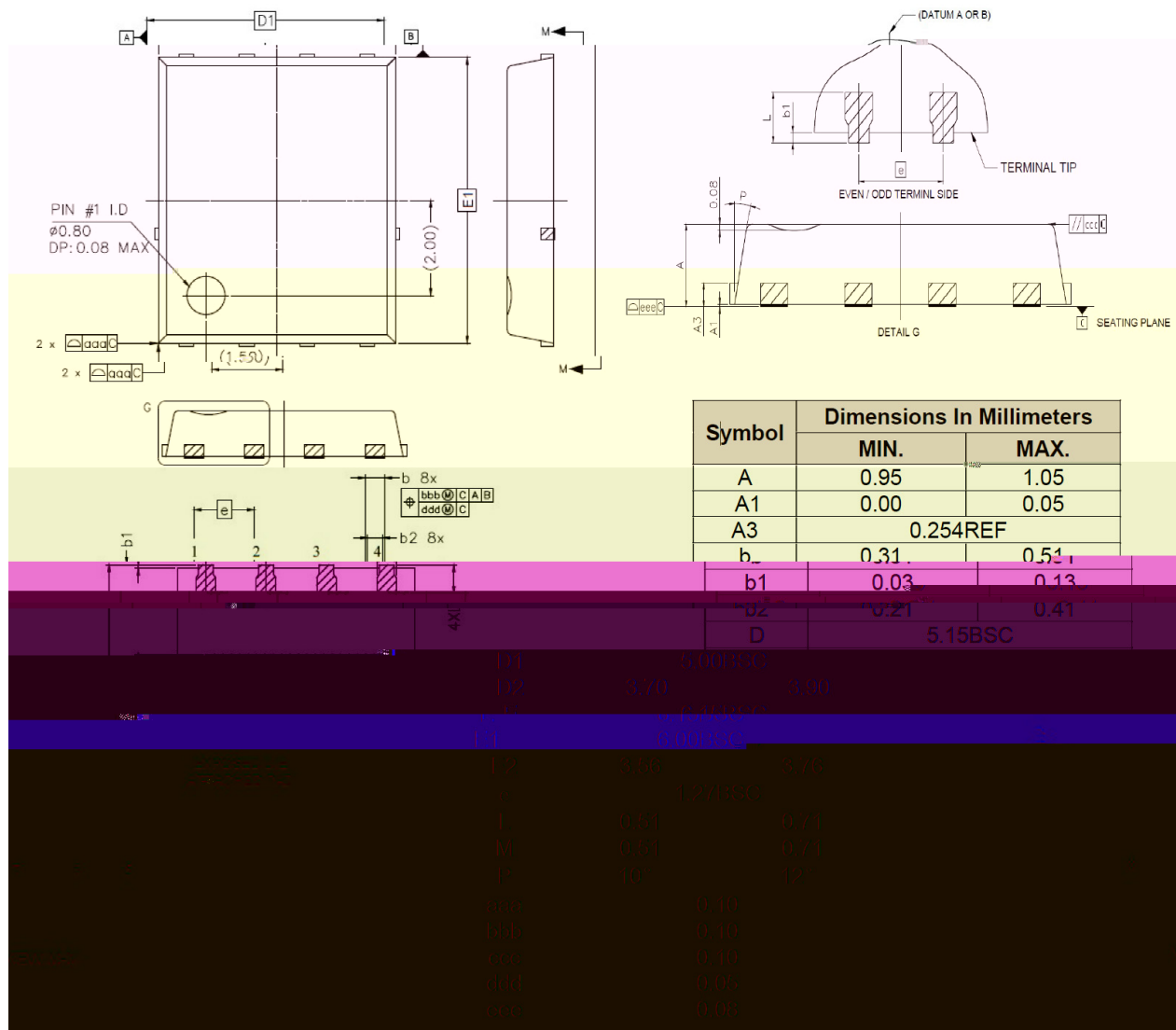
*** Limited by bonding wire

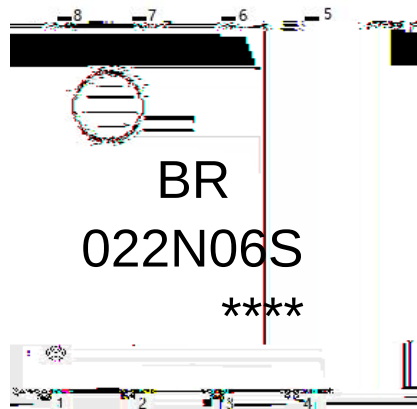
Parameter	Symbol	Test Conditions
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q_g	$V_{GS}=10V$ $V_{DS}=30V$ $I_D=30A$		83		nC
Gate Source Charge	Q_{gs}			16		
Gate Drain Charge	Q_{gd}			13		
Turn-On Delay Time	$t_{d(on)}$	$V_{GEN}=10V$ $V_{DS}=30V$ $I_{DS}=30A$ $R_G=4.5\Omega$ $R_L=1\Omega$		22		ns
Turn-On Rise Time	t_r			21		
Turn-Off Delay Time	$t_{d(off)}$			60		
Turn-Off Fall Time	t_f			15		









EU

022N06S

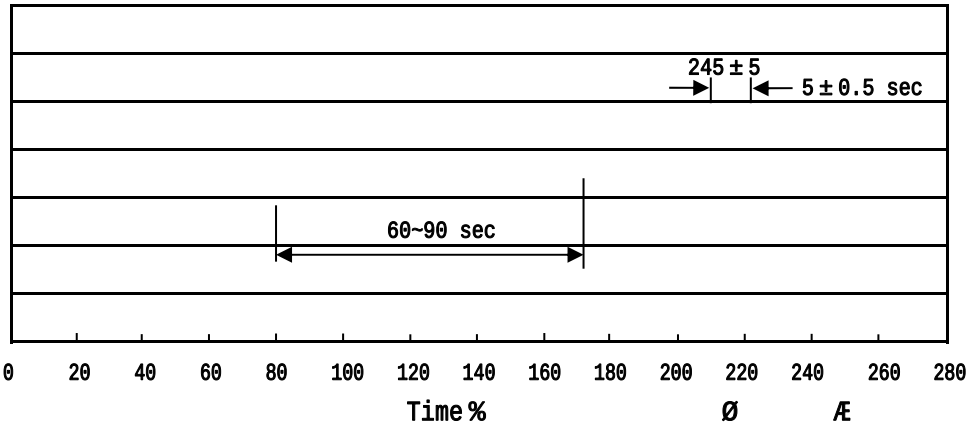
Note:

BR: Company Code

022N06S: Product Type Code

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

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1150180%6090sec;

2245[±]5%5[±]0.5sec;

3210%/sec.
- 1.Preheating:150~180%, Time:60~90sec.

2.Peak Temp.:245[±]5%, Duration:5[±]0.5sec.

3. Cooling Speed: 2~10%/sec.

260[±]5%10[±]1 sec.Temp.:260±5Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel 2	Reels/Inner Box 2	Units/Inner Box 2	Inner Boxes/Outer Box 2	Units/Outer Box 2	Reel	Inner Box	Outer Box
PDFN5×6	5,000	2	10,000	6	60,000	13"×12	360×360×50	380×335×366

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