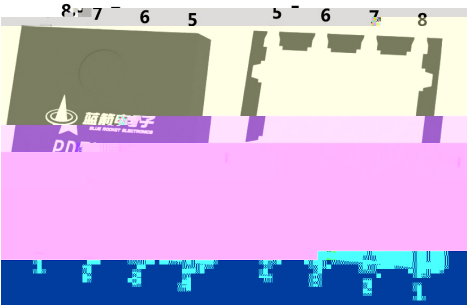
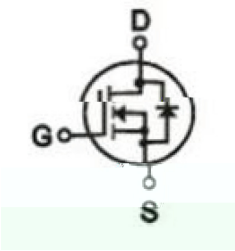


/ Descriptions

PDFN5×6 M N ƒ ǒ Ƴ 1
N-Channel MOSFET in a PDFN5×6 Plastic Package.

$V_{DS}(V)=60V$ $I_D=80A$
 $R_{DS(ON)}@10V\leq2.2m\Omega(Typ.2.0m\Omega)$
 $R_{DS(ON)}@6V\leq3.2m\Omega(Typ.2.5m\Omega)$
 η β HF Product.

Ɔ H GF 0 GF ƳΩ H
Motor drivers, DC - DC Converter.



PIN1、2、3: S PIN4: G PIN5、6、7、8: D

/ Marking

√ ”
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	
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

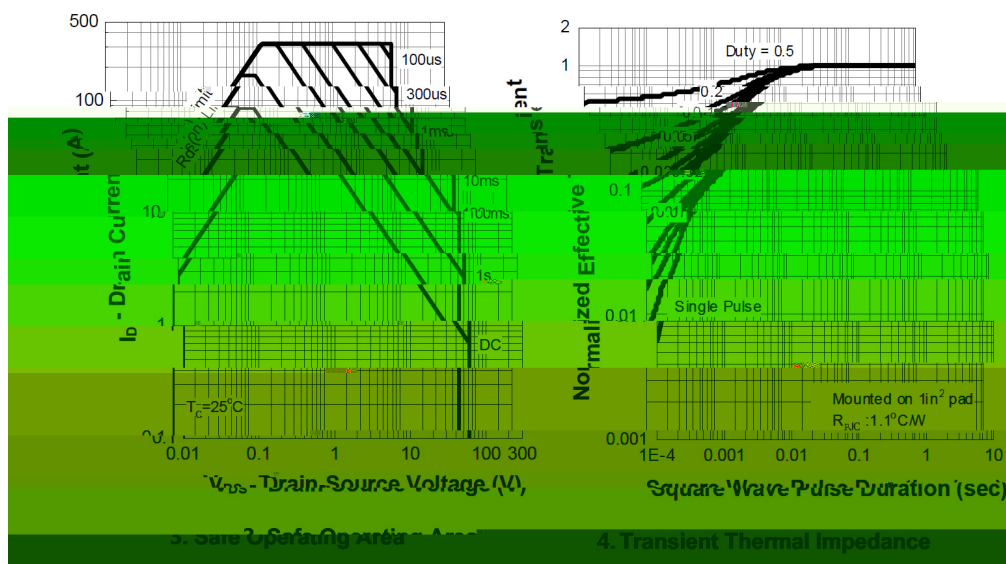
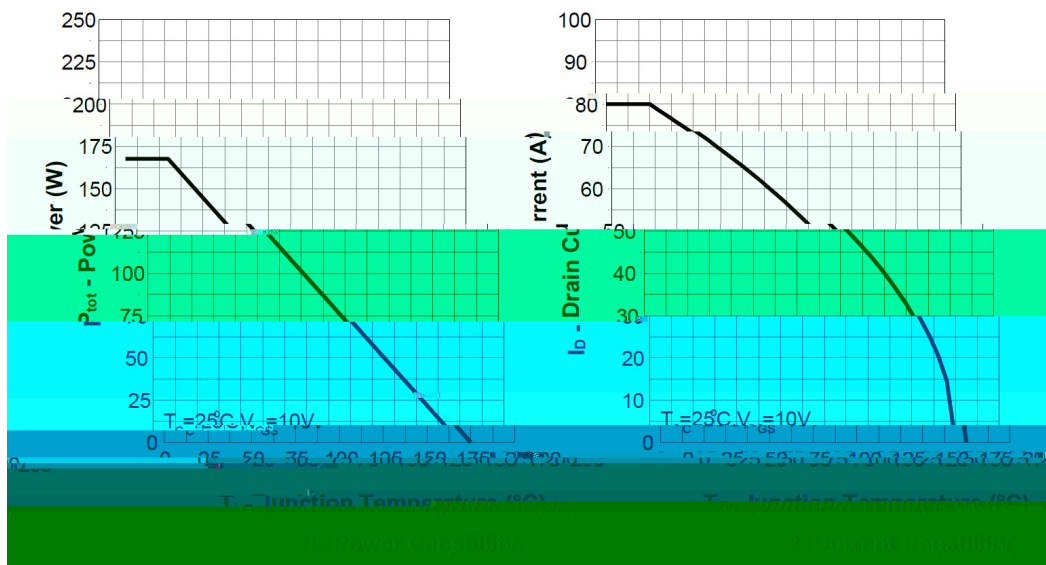
Symbol

Test Conditions

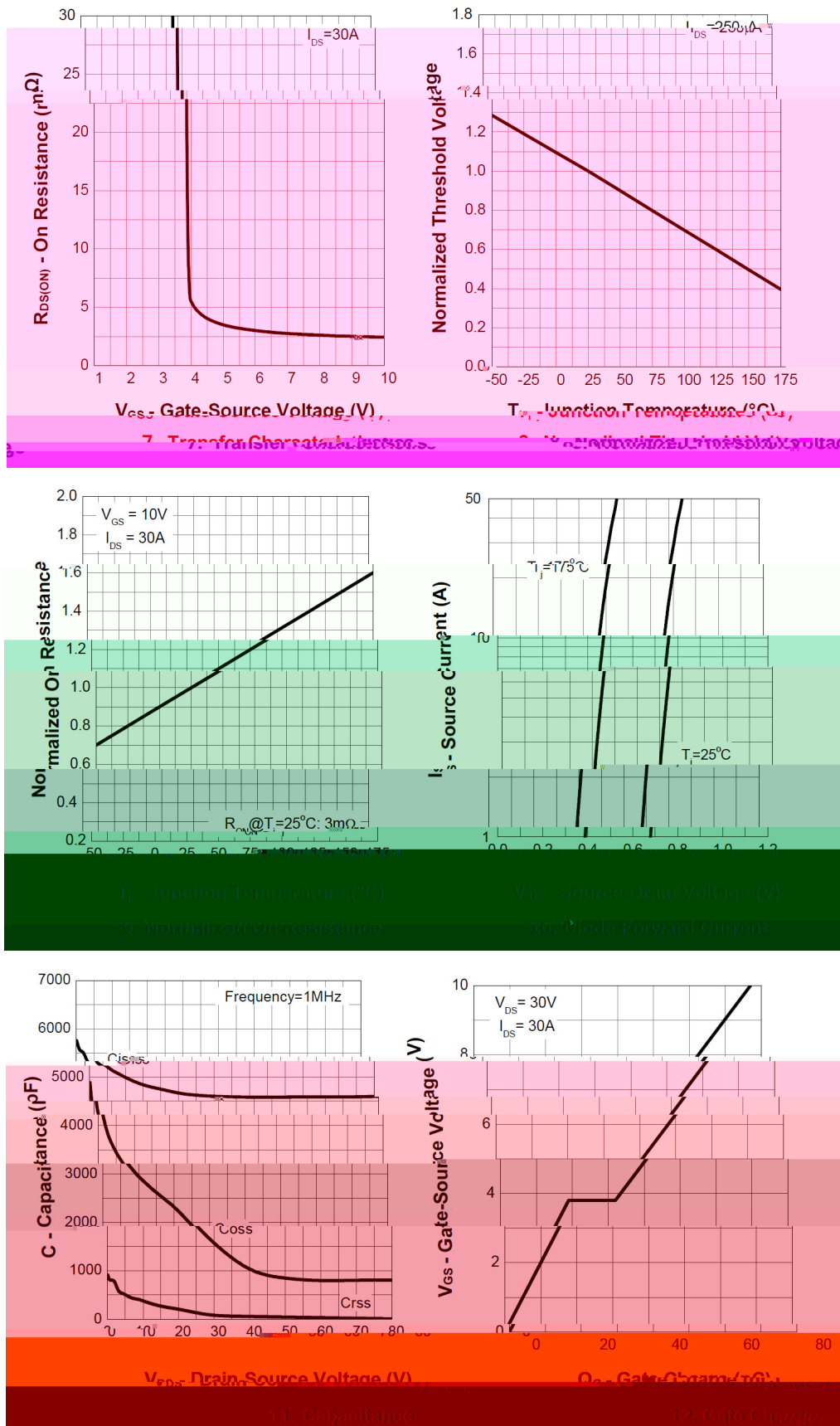
/ Electrical Characteristics(Ta=25)

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 =4.5Ω R _L =1Ω		22		ns
Turn-On Rise Time	t _r			21		
Turn-Off Delay Time	t _{d(off)}			60		
Turn-Off Fall Time	t _f			15		

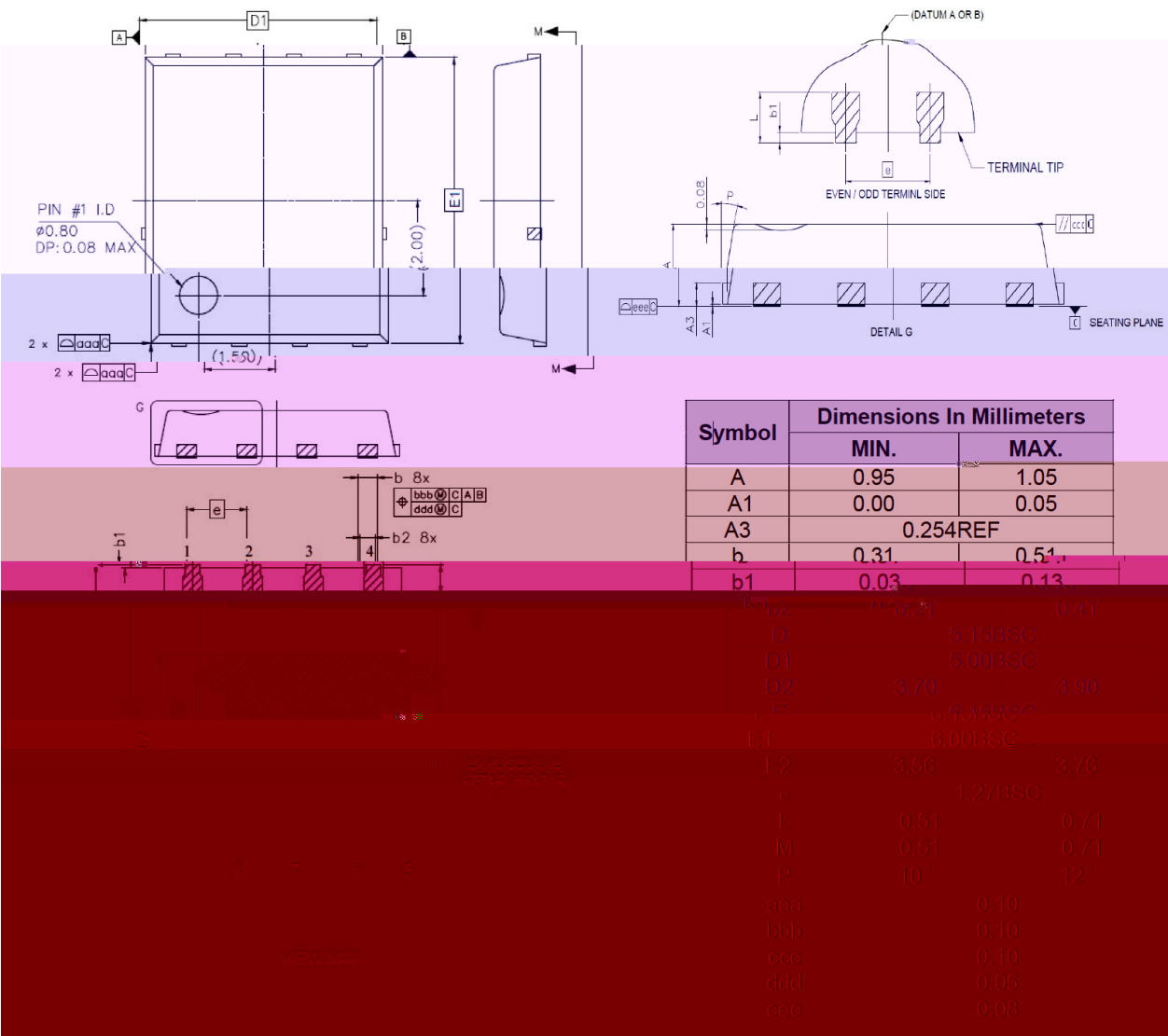
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



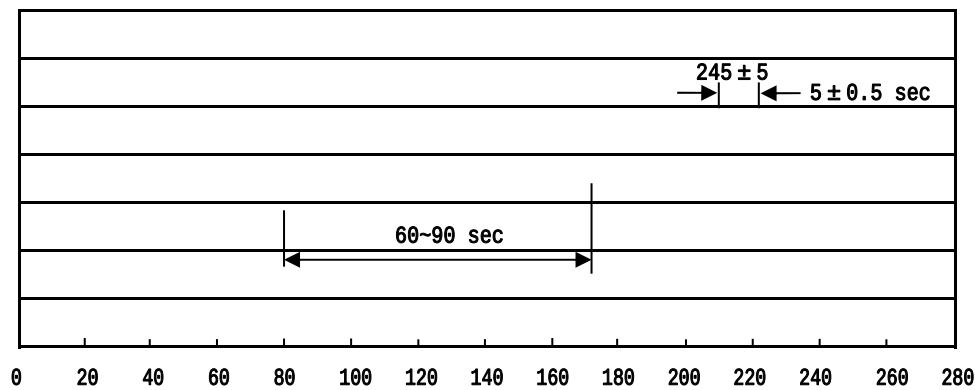
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ER	И	.
022N06S	3	N
****	1	η N

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

/ Resistance to Soldering Heat Test Conditions

□ ŷ 260±5 `H 10±1 sec. Temp.: 260±5 Time: 10±1 sec

/ Packaging SPEC.

/ REEL

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

/ Notices

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