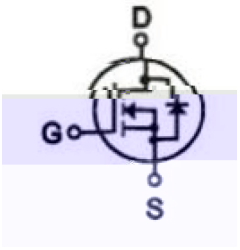
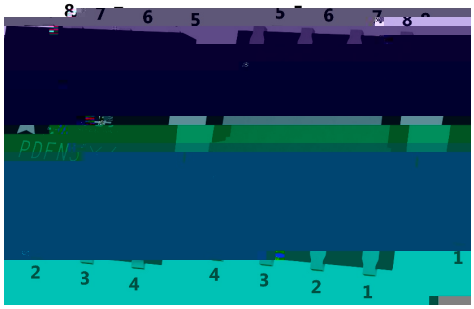
/ Descriptions

PDFN5Ö6 Ṃ Ŀ N ᵴ ʃ ᷒ Ẓ ᵑ
N-Channel MOSFET in a PDFN5×6 Plastic Package.

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

ᴐ ɨ ᴜ ᴴ ı GF 0 GF ᶎ ̈Ω ᴴ
Motor drivers, DC - DC Converter.





PIN1 2 3 S PIN4 G PIN5 6 7 8 D

/ Marking

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See Marking Instructions.

v ‴Ω Parameter	٩ N Symbol	‴Ω Ö Rating	D Ч Unit
Drain-Source Voltage	V_{DS}	60	V
Continuous Drain Current*	I_D(T_c=25)	80	A
Pulsed Drain Current*,**,***	I_{DM}	209	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	P_D(T_c=25)	156	W
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 175	ł
Continuous-Source Current	I_S	80	A
Single Pulsed Avalanche Energy V_{DD}=50V , L=0.5mH	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 in^2 pad area, t ≤ 10 sec

** Pulse width ≤ 300 s, duty cycle 2 %

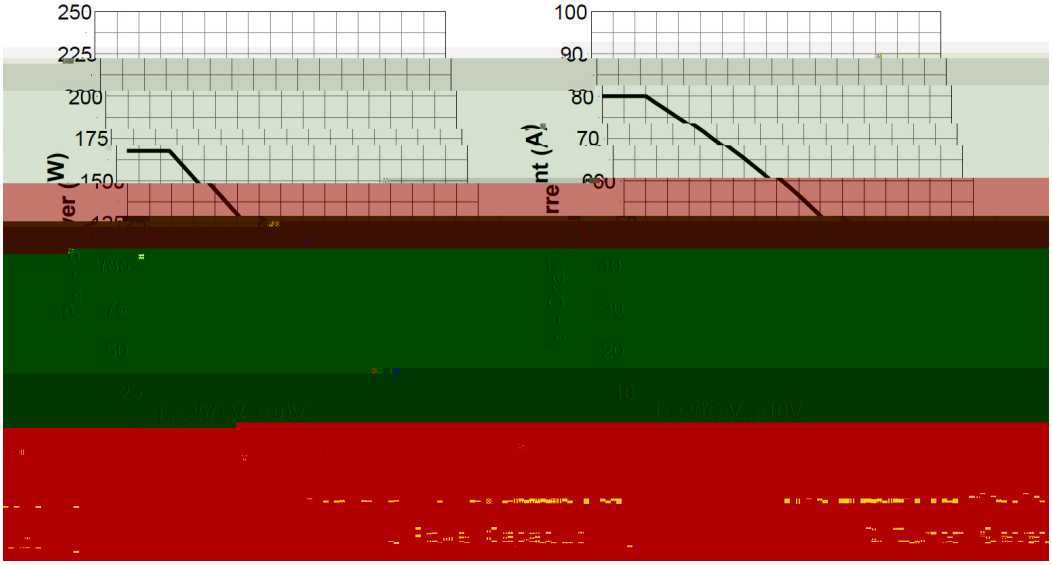
*** Limited by bonding wire

v ‴Ω Parameter	٩ N Symbol	╨ ⁝ ┤ Ţ Test Conditions

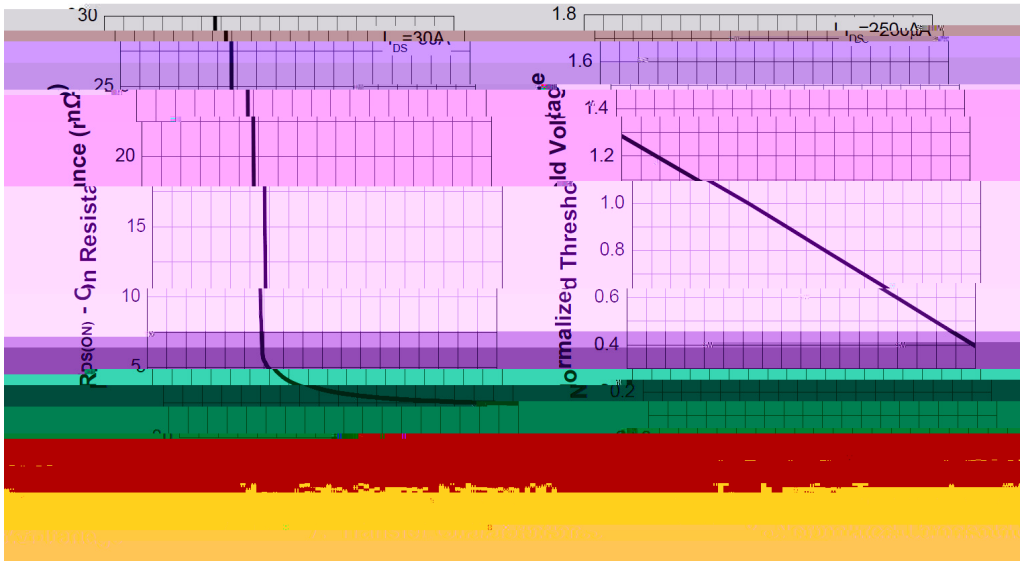
/ Electrical Characteristics(Ta=25)

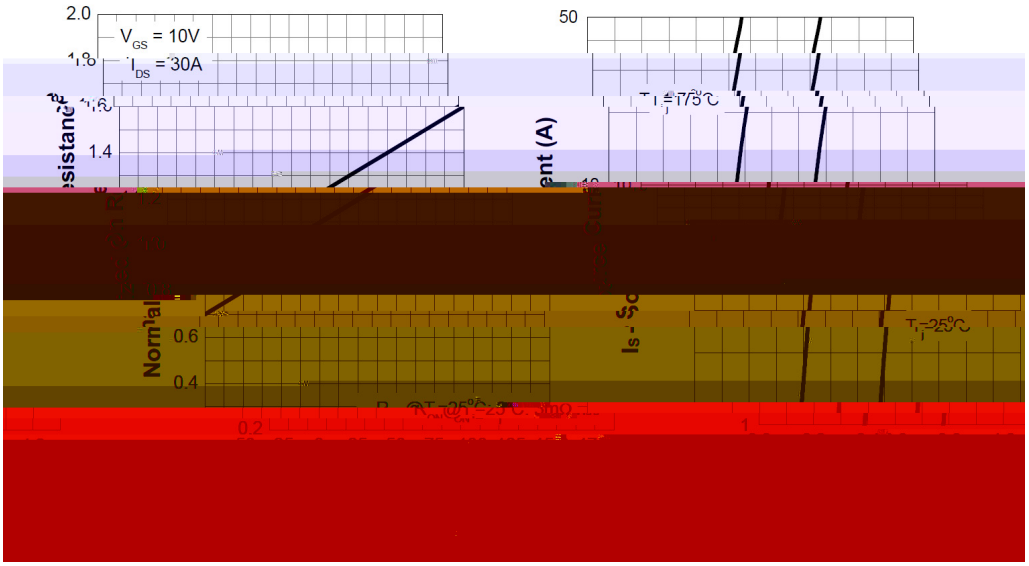
v ̈Ω Parameter	ϒ N Symbol	⅄ ;ϯ ţ Test Conditions	ѡ ṇ Ө Min	Ɛ ȝ Ө Typ	ѡ ᶻ Ө Max	ɒ Ꮒ Unit
Total Gate Charge	Q_g	V_{GS}=10V V_{DS}=30V I_D=30A		83		nC
Gate Source Charge	Q_{gs}			16		
Gate Drain Charge	Q_{gd}			13		
Turn-On Delay Time	$t_{d(on)}$	V_{GEN}=10V V_{DS}=30V I_{DS}=30A R_G=4.5 R_L=1		22		ns
Turn-On Rise Time	t_r			21		
Turn-Off Delay Time	$t_{d(off)}$			60		
Turn-Off Fall Time	t_f			15		

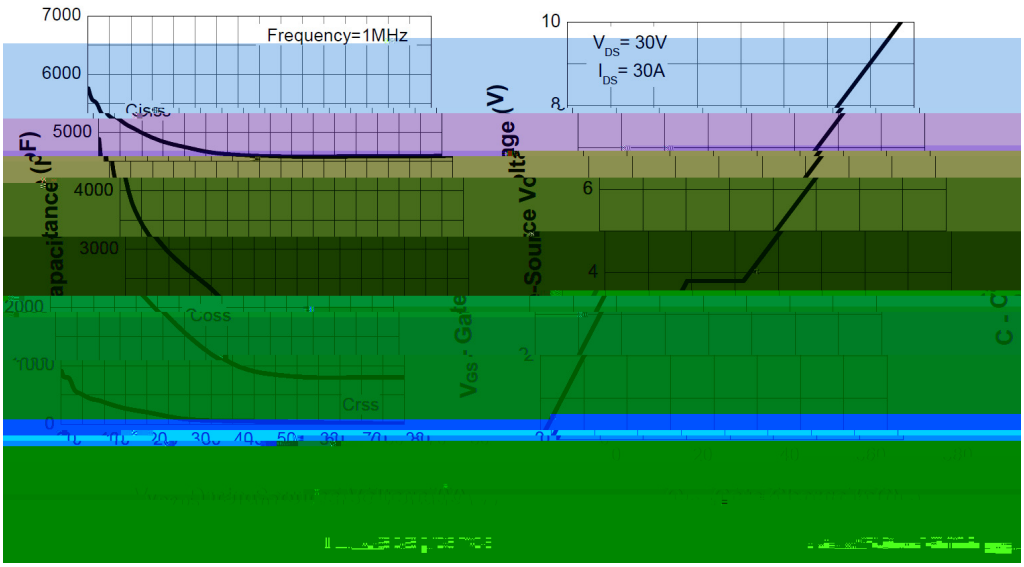
/ Electrical Characteristic Curve



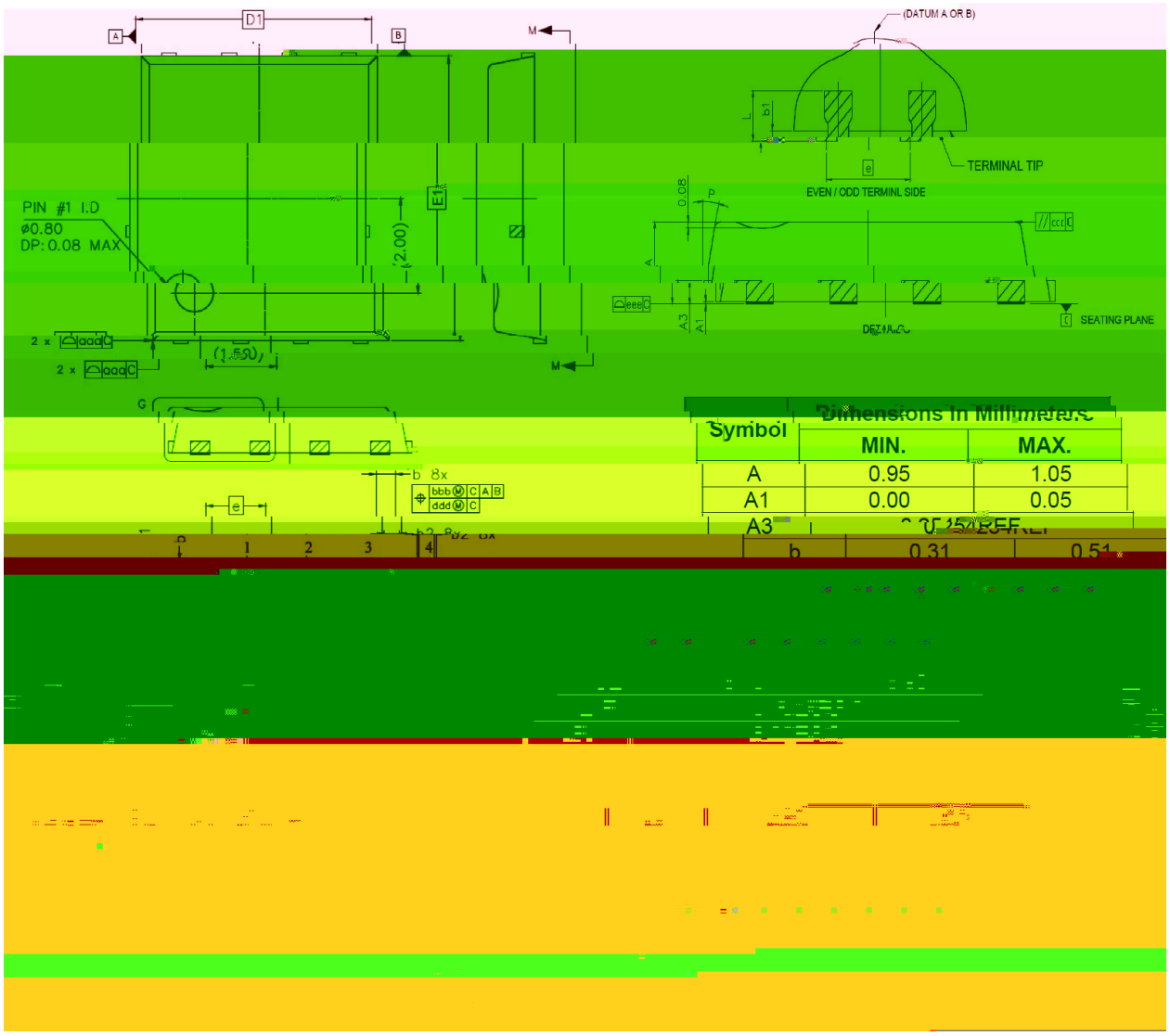
/ Electrical Characteristic Curve







/ Package Dimensions



Symbol	Dimensions In Millimeters	
	MIN.	MAX.
A	0.95	1.05
A1	0.00	0.05
A3	0.15 REF	
b	0.31	0.51

/ Marking Instructions



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EU χ	ѭ ϗ И Ґђ
022N06S χ	ѭ ϳ N Ґђ
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Note:

BR:	Company Code
022N06S:	Product Type Code
****:	Lot No. Code, code change with Lot No.

BRCS022N06SZC-58

Rev.A Aug.-2025