BRCS035N06SHZC

Rev.A May.-2024

DATA SHEET

/ Descriptions

PDFN5Ö6 Ṃ Ŀ N ǰ ʃ ᾧ̃ Ẕ ˥

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

/ Features

V_{DS} (V) = 60V I_D =111A (V_{GS} = ±20V)

$R_{DS(ON)}$@10V≤3.6mR(Typ.3.45mR)

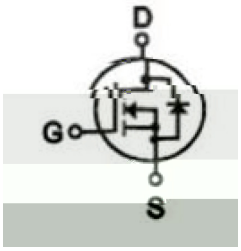
ŋ̀ ɾ β HF Product.

/ Applications

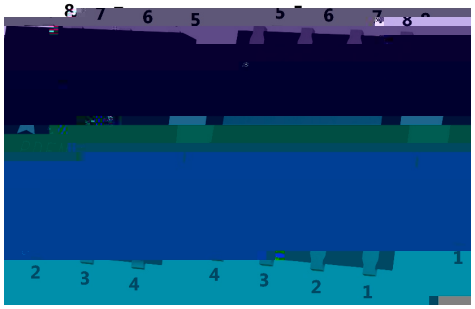
ɔ – ˥ ת ı MB/NB/UMPC/VGA ɜ ɭ ق ɔ ᴾ ª ℓ Buck ψ˝Ω ʰ ı ǐ ˩´ ˩˩-´ ˩˩ ɔ ד ˧˩ ˩ ı ق U Ầ ʉ

Battery Management,High Frequency Point-of-Load Synchronous Buck Conventer for MB/NB/UMPC/VGA,Networking DC-DC Power System,Load Switch.

/ Equivalent Circuit



/ Pinning



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

Pin	极性
1	S
2	S
3	S
4	G
5	D
6	D
[illegible]	[illegible]
[illegible]	[illegible]

/ Marking

ð M ˥ ب ˝

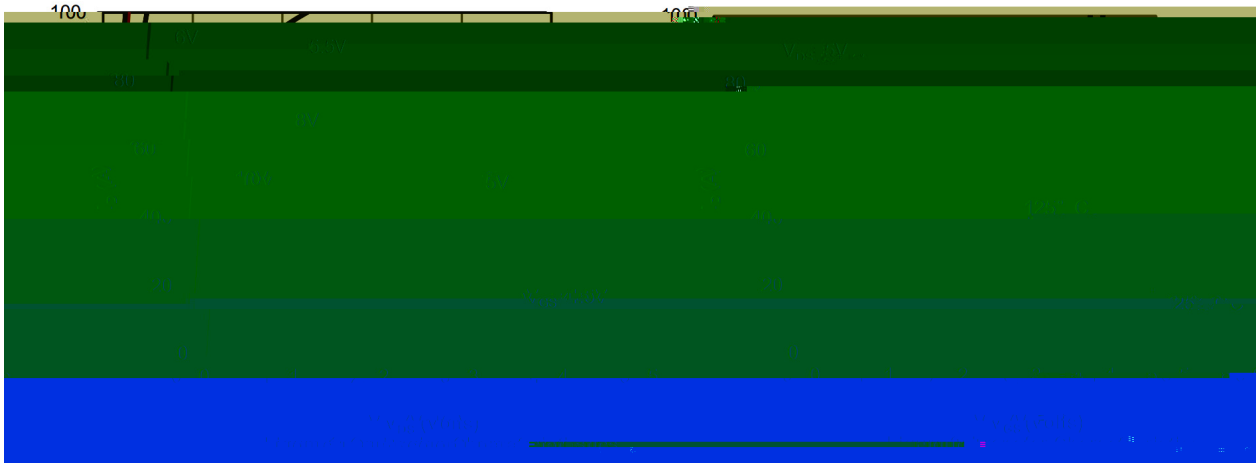
See Marking Instructions.

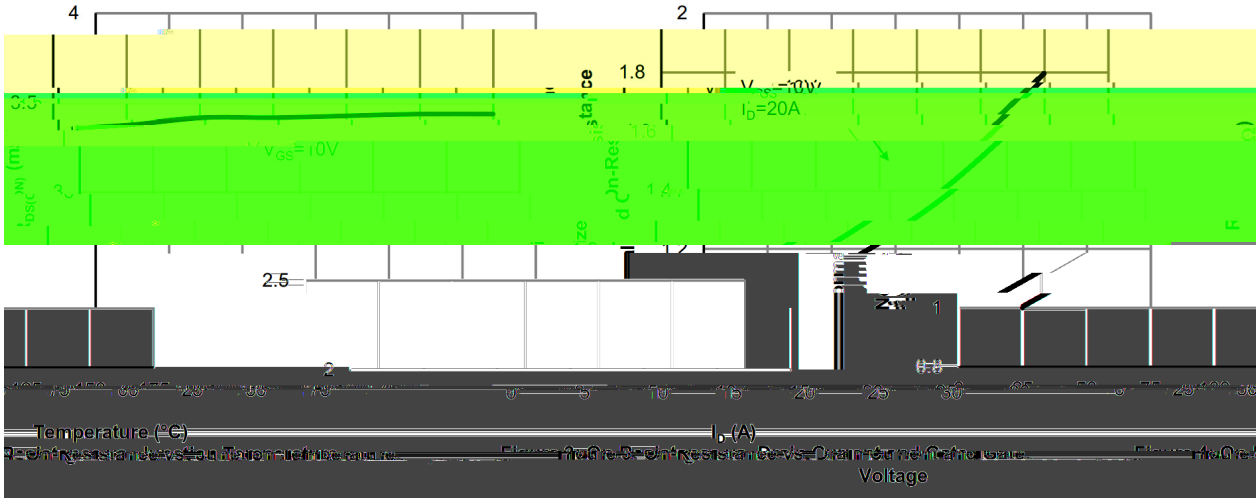
v ˜Ω Parameter	˥ N Symbol	˜Ω Ö Rating	D Ĥ Unit
Drain-Source Voltage	V_{DS}	60	V
Continuous Drain Current	I_D	111	A
Pulsed Drain Current	I_{DM}	227	A
Gate-Source Voltage	V_{GS}	± 20	V

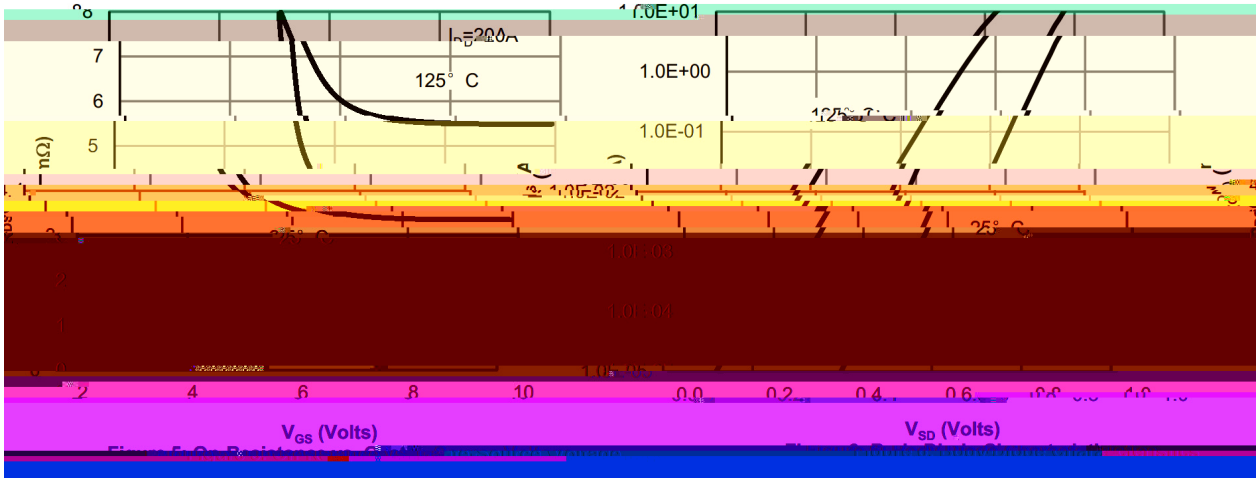
/ Electrical Characteristics(Ta=25)

v Ώ̣ Parameter	ɬ N Symbol	ɭ ⁑ ɬ Test Conditions	ω̣ ṇ Ö Min	Ɛ ʒ Ö Typ	ω̣ ʑ Ö Max	D Ɉ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=30V R_L=1.5Ω R_{GEN}=3Ω		13		ns
Turn-On Rise Time	t_r			4		
Turn-Off Delay Time	$t_{d(off)}$			47		
Turn-Off Fall Time	t_f			6.5		

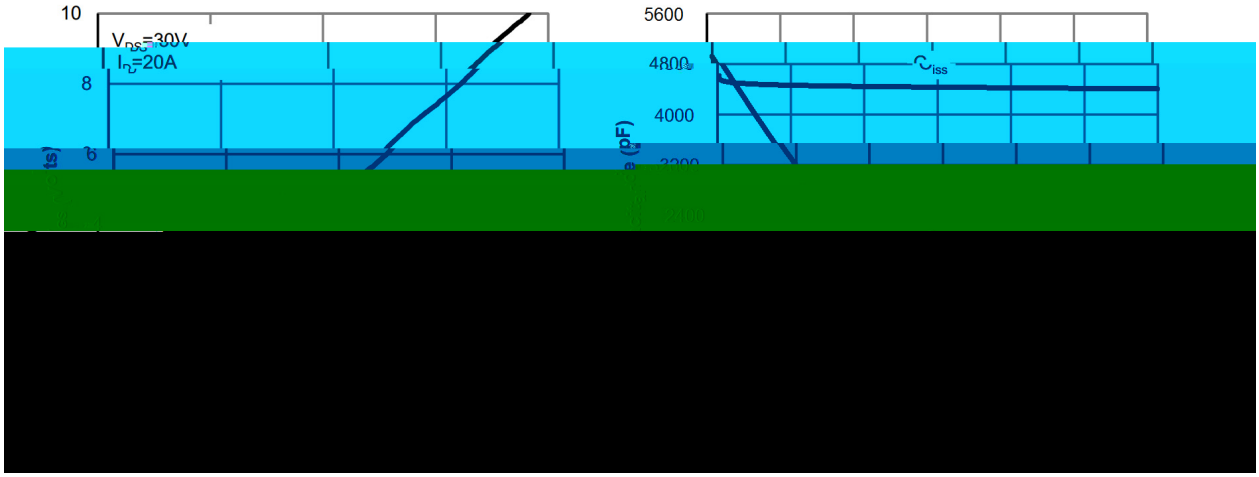
/ Electrical Characteristic Curve







/ Electrical Characteristic Curve



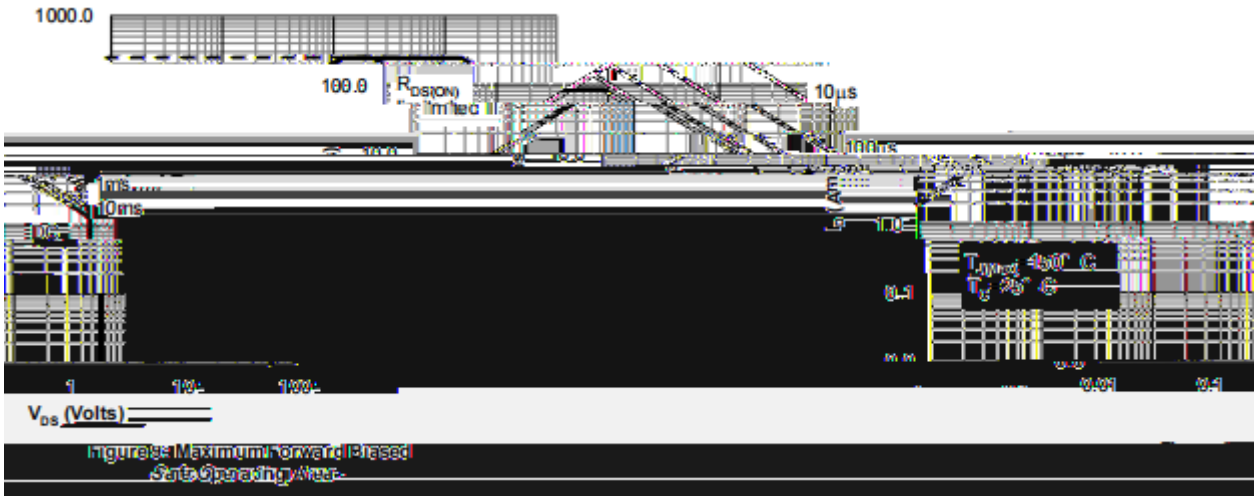
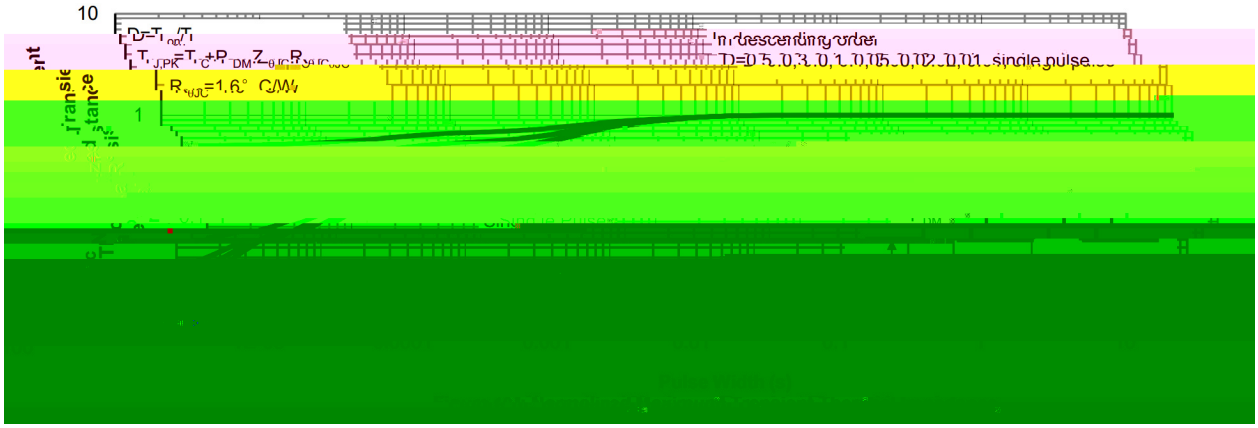
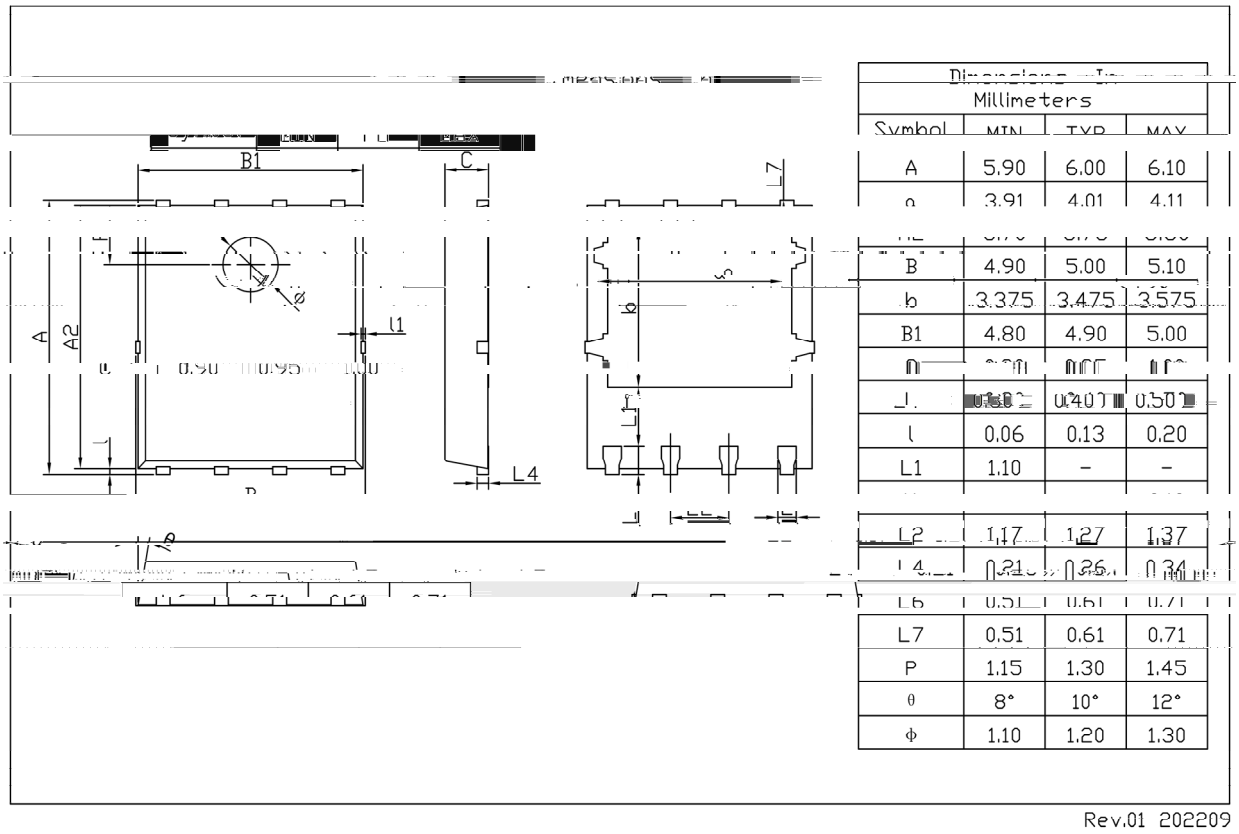


Figure 9: Maximum Forward Biased Safe Operating Area



/ Package Dimensions

PDFN5×6 Unit:mm



Dimensions In Millimeters			
Symbol	MIN	TYP	MAX
A	5.90	6.00	6.10
[illegible]	3.91	4.01	4.11
B	4.90	5.00	5.10
b	3.375	3.475	3.575
B1	4.80	4.90	5.00
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	0.40	0.50
l	0.06	0.13	0.20
L1	1.10	–	–
[illegible]	[illegible]	[illegible]	[illegible]
L2	1.17	1.27	1.37
L4	0.21	0.26	0.34
L6	0.51	0.61	0.71
L7	0.51	0.61	0.71
P	1.15	1.30	1.45
θ	8°	10°	12°
Φ	1.10	1.20	1.30

Rev.01 202209

/ Marking Instructions



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Note χ	
BR χ	Company Code
035N06SH χ	Product Type Code
****:	Lot No. Code, code change with Lot No