

BRCs200N04Dsc

Rev.B Oct.-2025

/ Descriptions

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Dual N-Channel Power Trench MOSFET in a SOP-8 Plastic Package.

/ Features

$V_{DS}(V)=40V$ $I_D=8A$

$R_{DS(ON)}@10V<20m$ (Typ. 22m)

$R_{DS(ON)}@4.5V<29.5m$ (Typ. 36m)

HF Product.

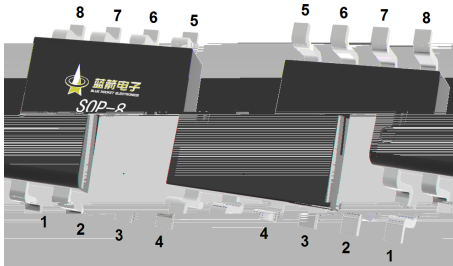
/ Applications

Battery protection, Load Switch, Power management.

/ Equivalent Circuit



/ Pinning



PIN1 S1 PIN 2 G1 PIN 3 S2 PIN 4 G2

PIN 5 D2 PIN 6 D2 PIN 7 D1 PIN 8 D1

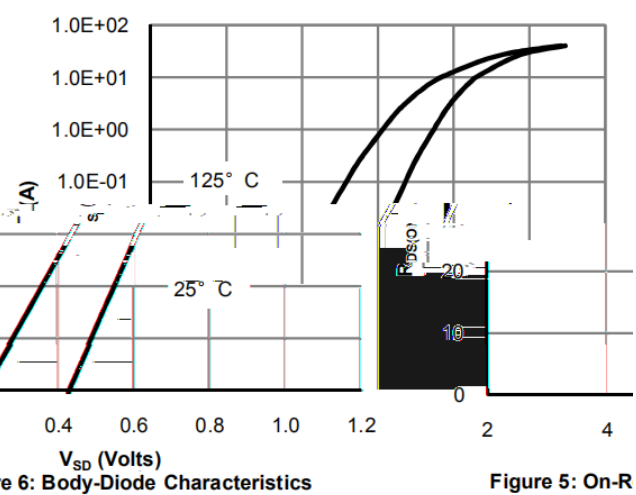
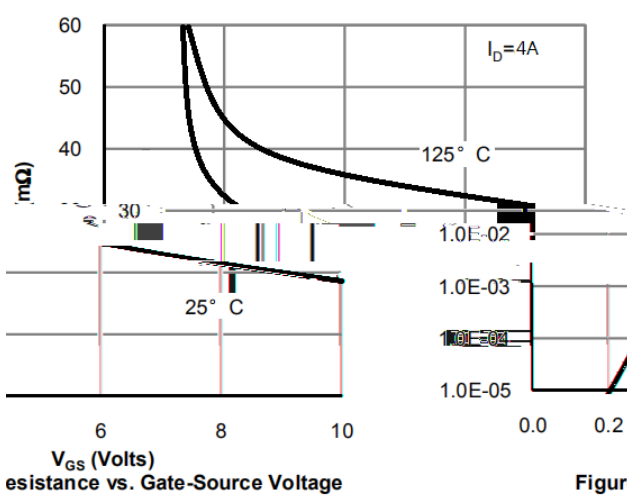
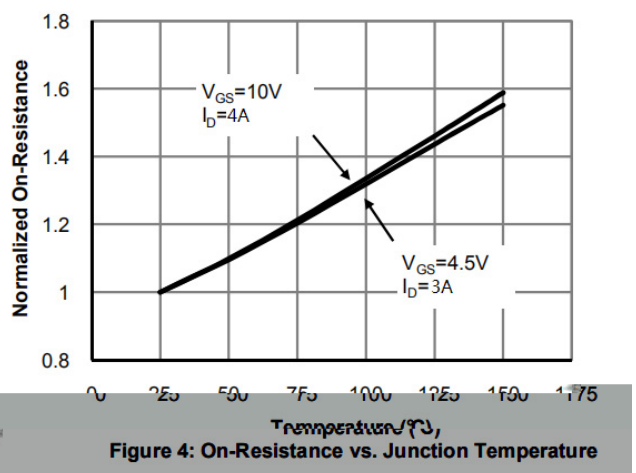
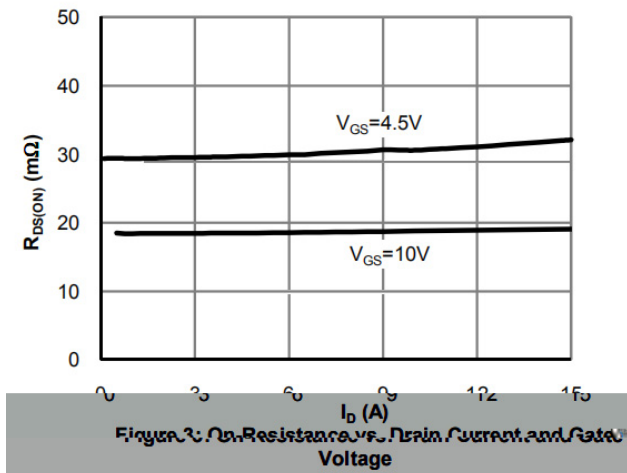
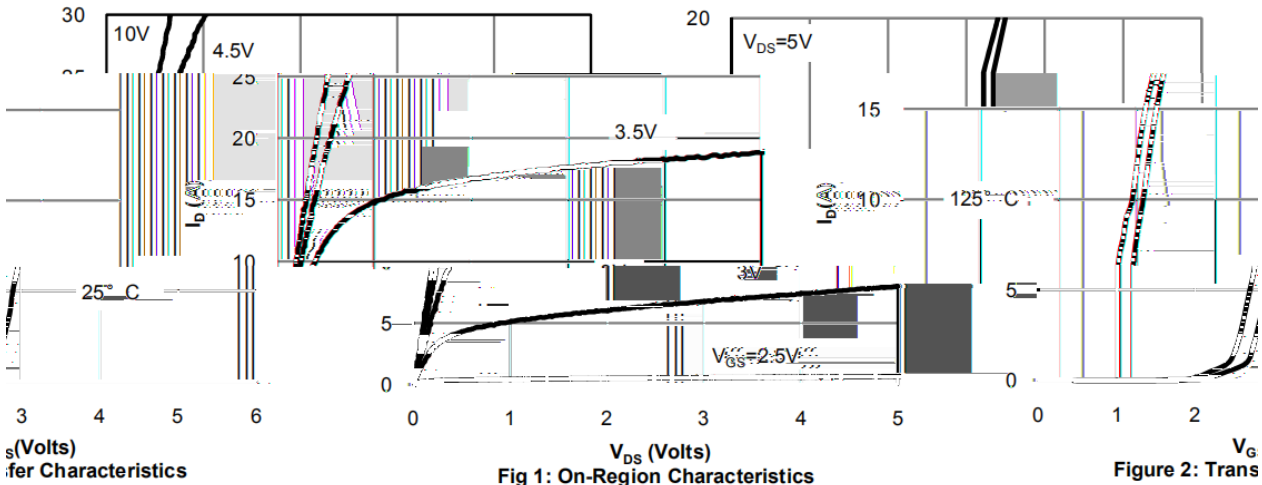
/ Marking

See Marking Instructions.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q _g (10V)	V _{GS} =10V V _{DS} =20V I _D =6A		15.4		nC
Total Gate Charge	Q _g (4.5V)			7.0		
Gate-Source Charge	Q _{gs}			1.4		
Gate-Drain Charge	Q _{gd}			2.9		

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

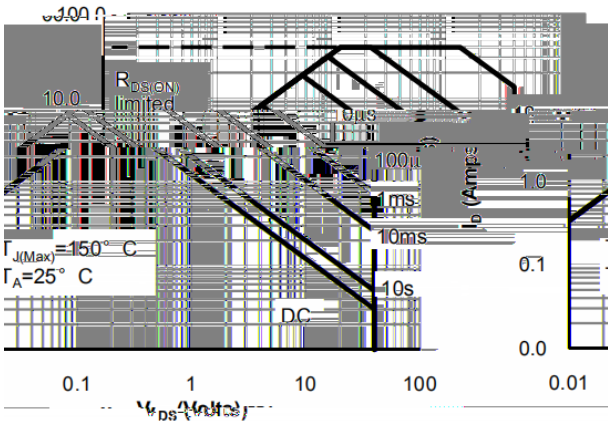
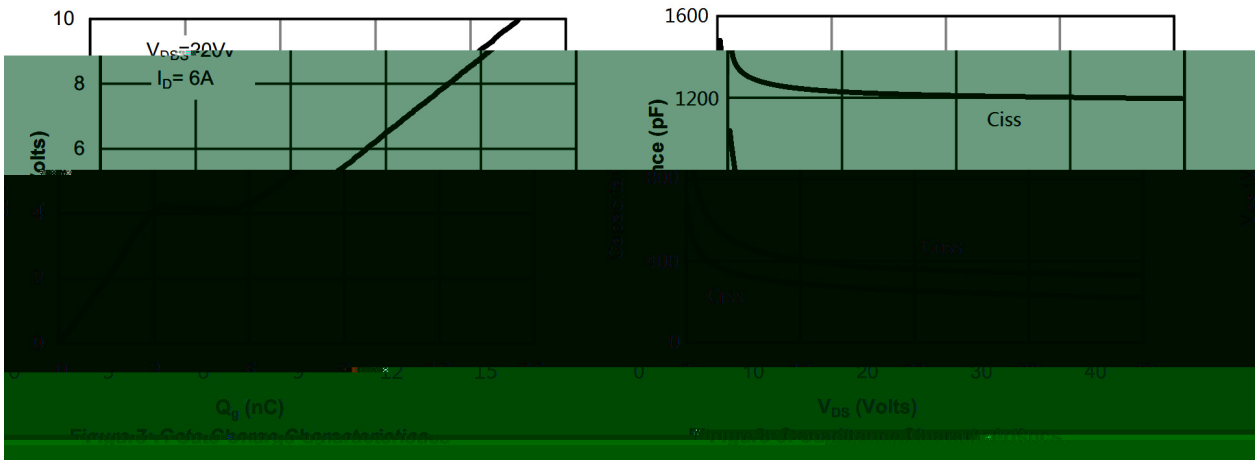


Figure 9 : Maximum Forward Biased Safe Operating Area

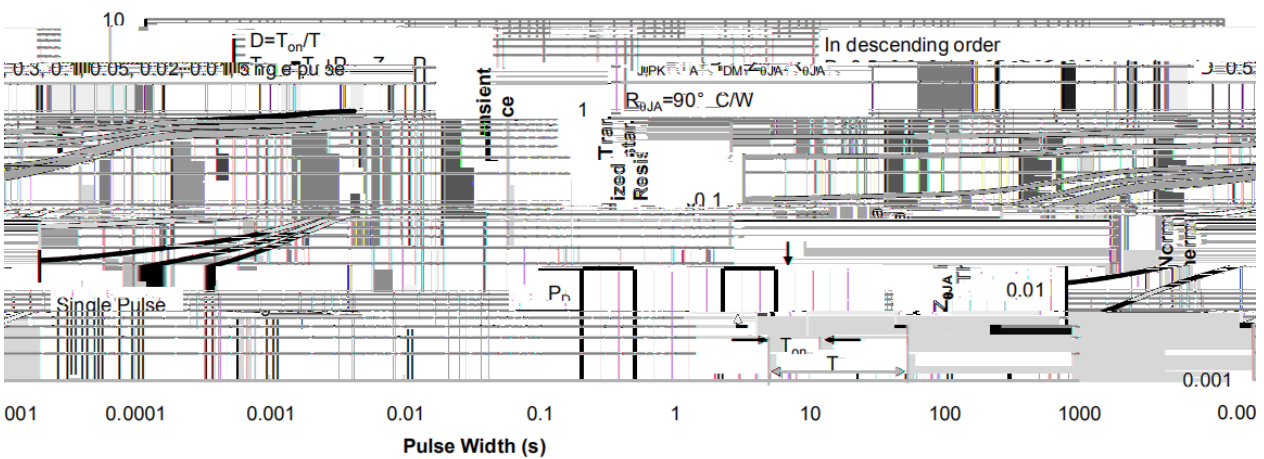
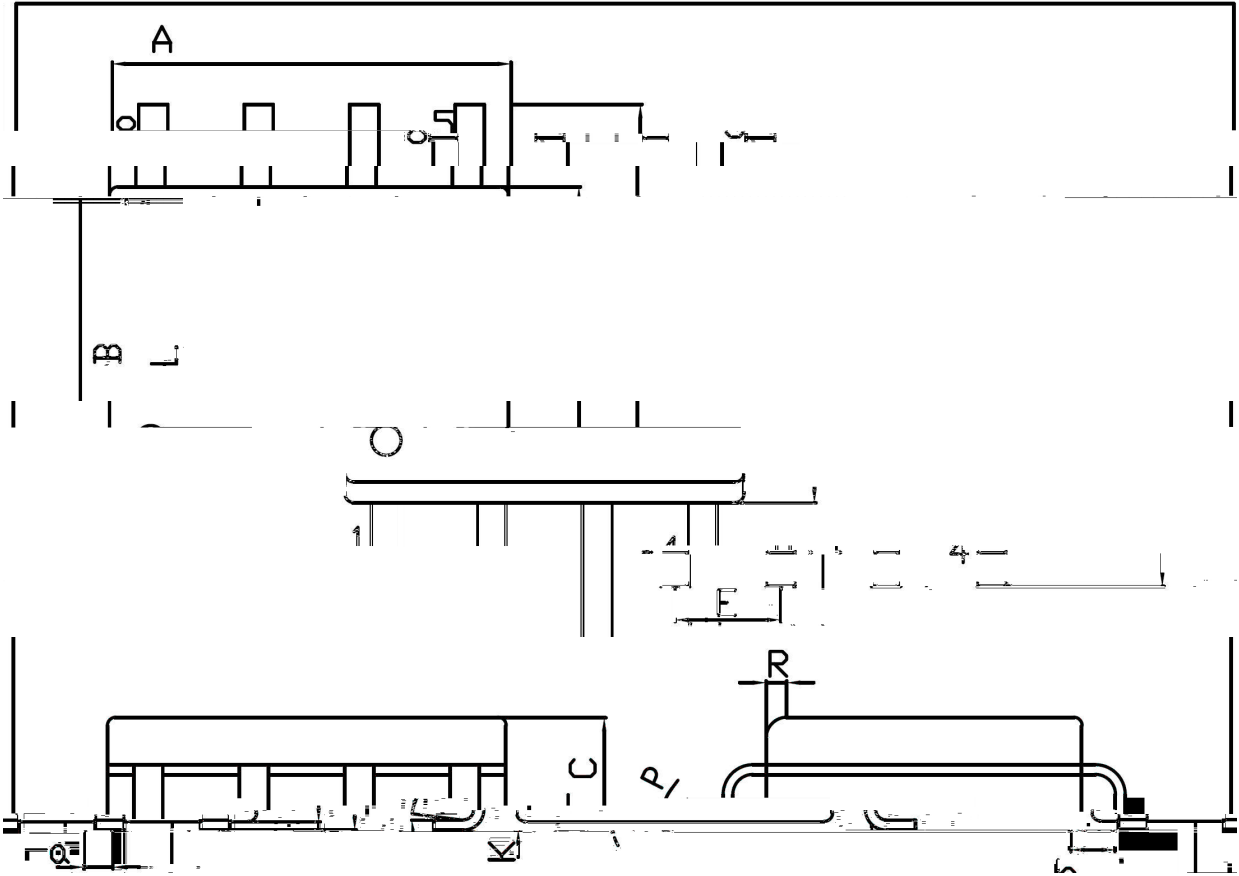


Figure 10: Normalized Maximum Transient Thermal Impedance

/ Package Dimensions

SOP-8

Unit:mm



, M y f / Marking Instructions

BR 200N04D

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Note:

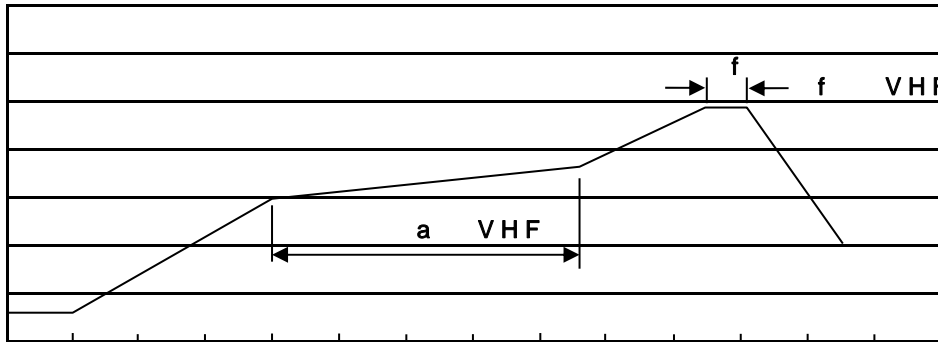
BR: Company Code.

200N04D y Product Type.

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

šWD t...•Žç (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a ç y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

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

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

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

ÂD /Cã p ~ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5 -

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit /Æmm³)		
	Units/Reel /--	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /!ç	Units/Outer Box /!ç	Reel	Inner Box	Outer Boxç
SOP/ESOP-8	4,000	2	8,000	6	48,000	3s x12	360x360x50	380x335x366

„ Æ y f / Notices

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