BRCS120N06RA

Rev.B Dec.-2025

DATA SHEET

˜Yت / Descriptions

N ڈ TO-220 ⱡ ᛚ

N-CHANNEL MOSFET in a TO-220 Plastic Package.

• Ề / Features

V_{DS} (V) = 60V I_D =120A (V_{GS} = ± 20V)

$R_{DS(ON)}$@10V≤6mΩ(Typ. 4mΩ)

$R_{DS(ON)}$@6V≤10mΩ(Typ. 5mΩ)

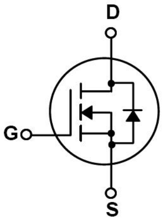
HF Product.

∀ ي / Applications

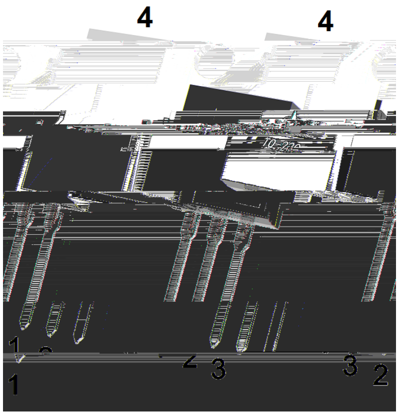
ـــ DC/DC ج UPS ݣ

These devices are well suited for high efficiency switching DC/DC converters,Synchronous rectification and UPS inverter.

ภقً ᾆ ؛ ع / Equivalent Circuit



ẫ ɺ ǘ / Pinning



PIN1 G PIN 2 4 D PIN 3 S

ᾆ ² z ŧ. ʜ ﺑ / h_{FE} Classifications & Marking

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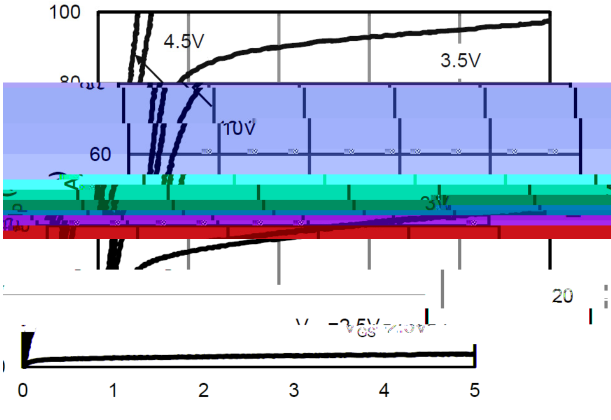
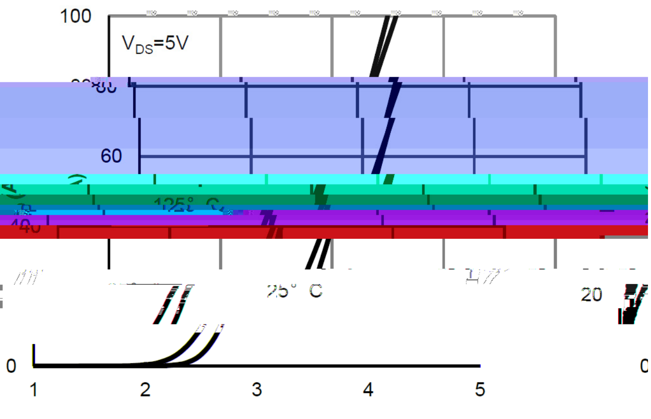
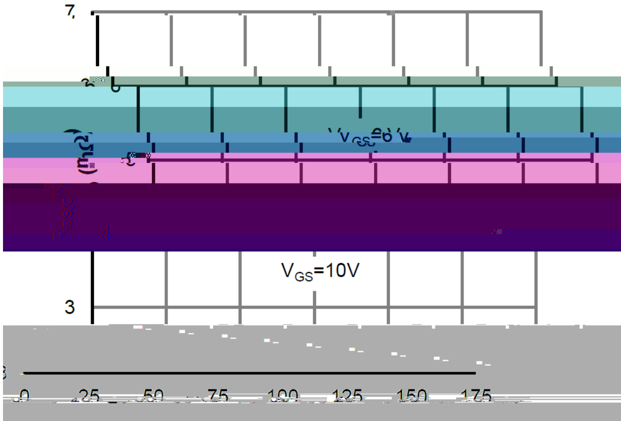
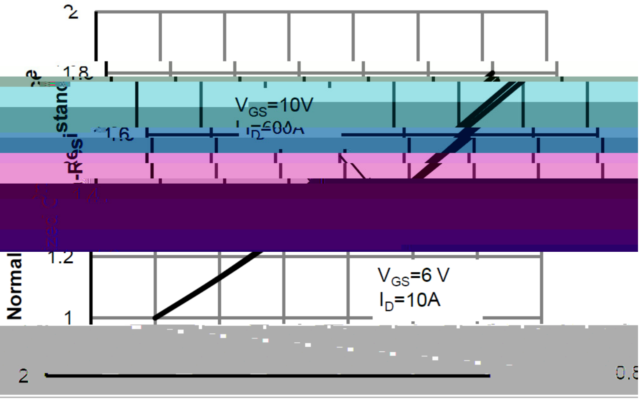
See Marking Instructions.

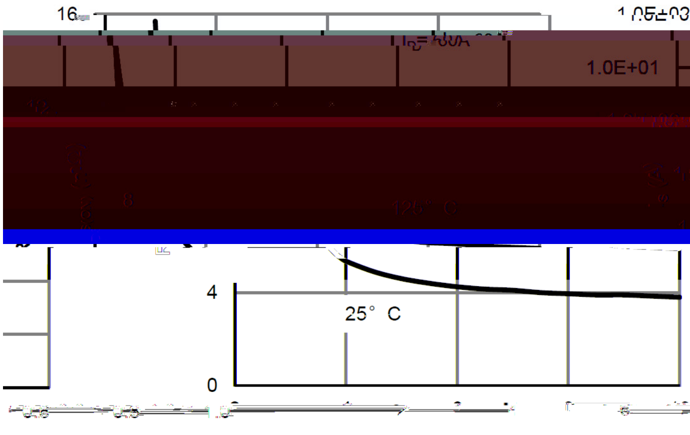
/ Electrical Characteristic Curve











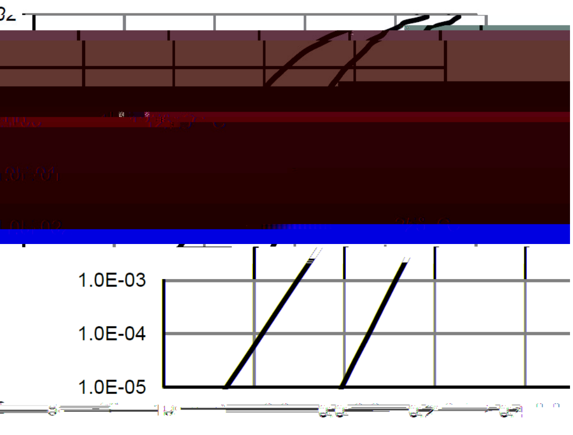
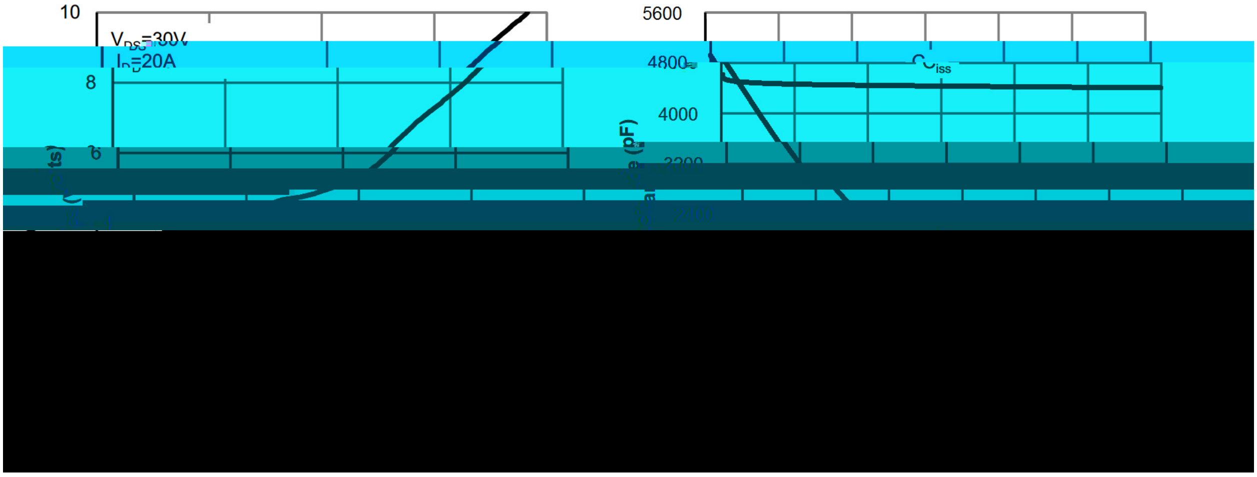
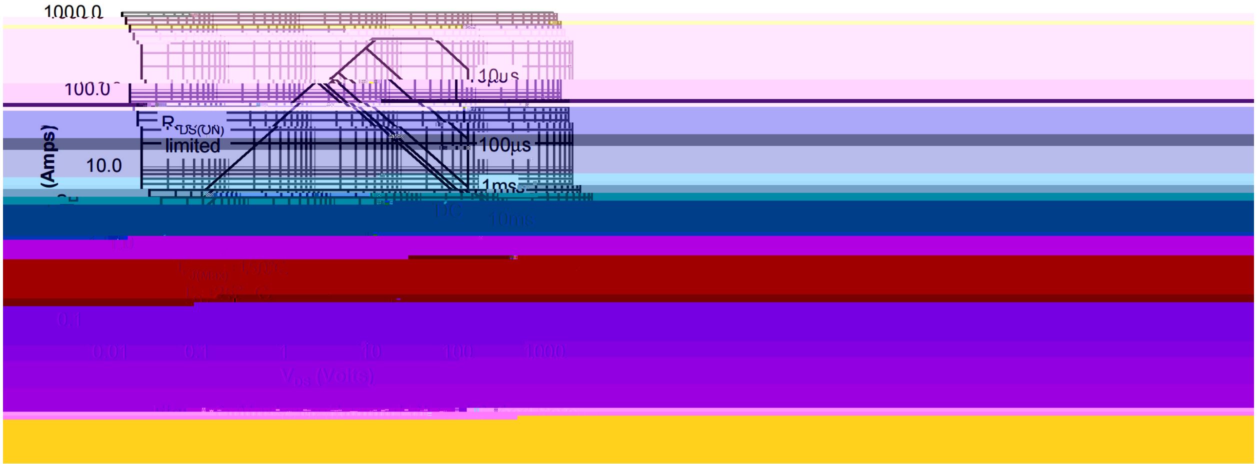


Figure 6) Body Diode Characteristics

Electrical Characteristic Curve





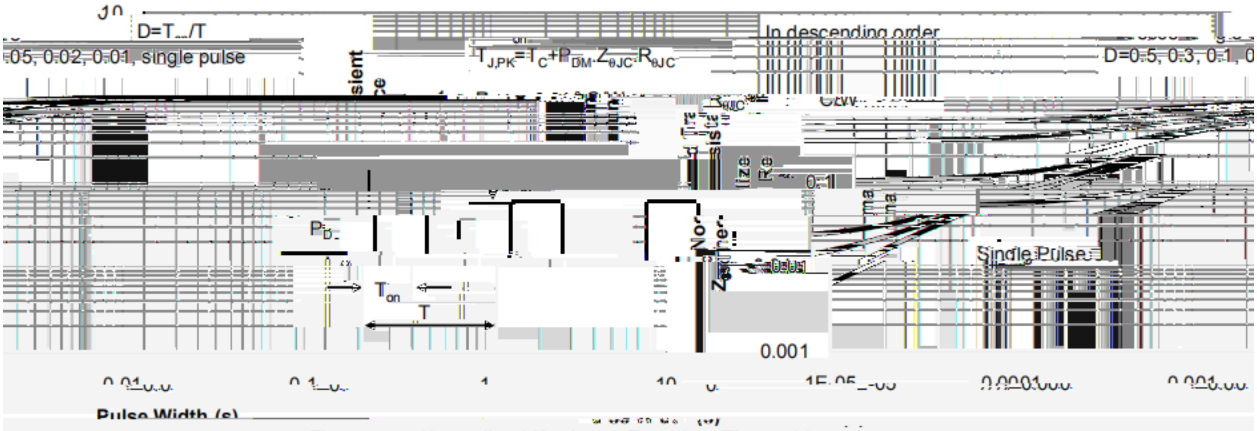
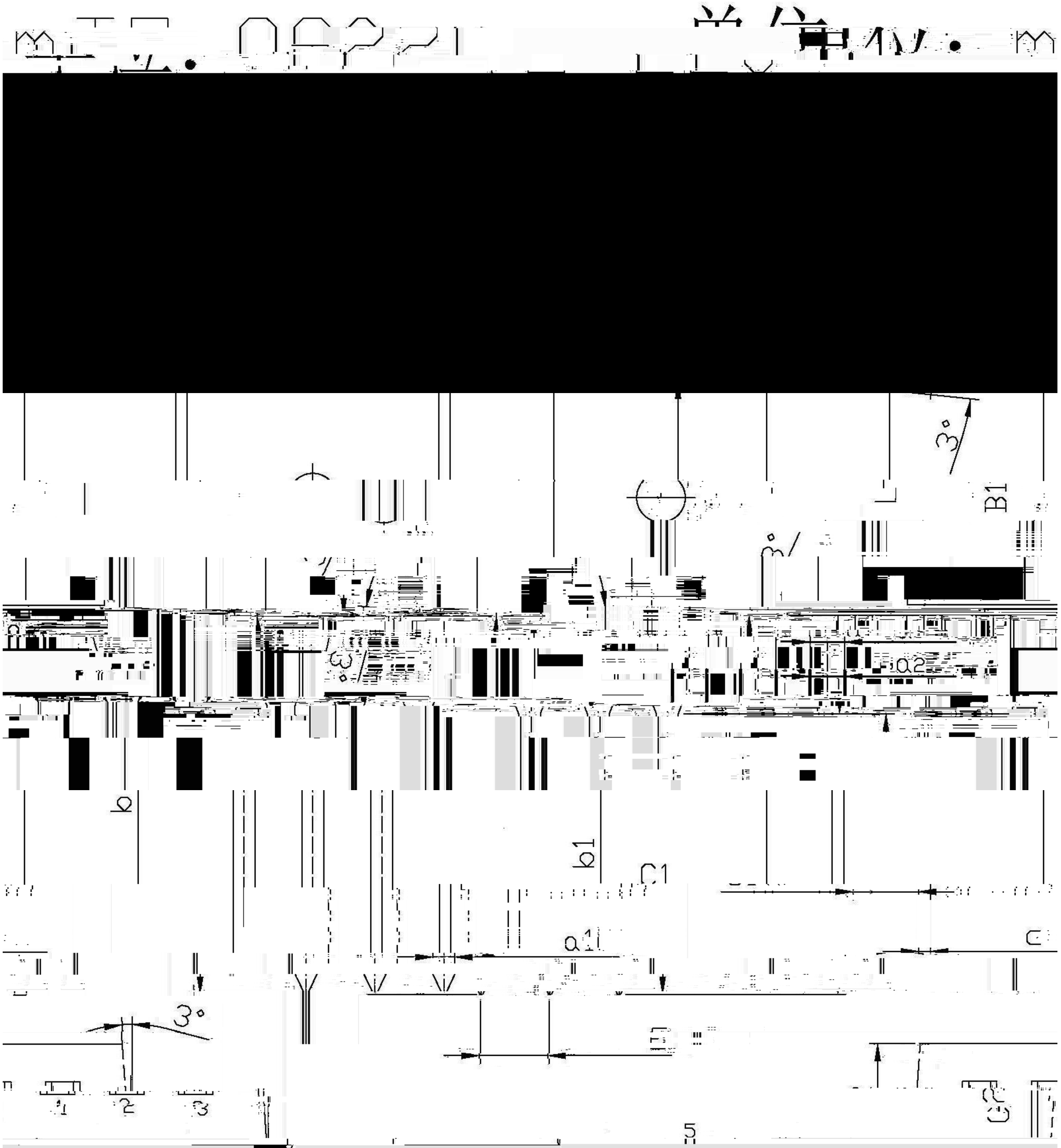


Figure 10 : Normalized Maximum Transient Thermal Impedance

ᵁ ẺÒ Ḻ ʆ / Package Dimensions



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
[illegible]	1.2	1.4	A	9.8	10.2
B	6.3	6.7	R	3.56	3.64
B1	9.0	9.4	[illegible]	15.7	16.1
C1	2.2	2.6	b	12.6	13.6

↓ ş ╗ ẘ΄E ﾔ ƒ (ῲ ὖ) / Temperature Profile for Dip Soldering(Pb-Free)

ب
1 ĺ 25 150 ڙ 60 90sec;
2 255±5 ڙ ﾑ 5±0.5sec;
3 ە 2 10 /sec.

Note:
1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:255±5 , Duration:5±0.5sec.
3. Cooling Speed: 2~10 /sec.

ﾈ ü զ ٕ ˋY Ţ / Resistance to Soldering Heat Test Conditions

270±5 ڙ 10±1 sec. Temp.:270±5 Time:10±1 sec

ۏ ե ≺— / Packaging SPEC.

ե / BULK

Package Type	Units					Dimension		(unit mm^3)