

BRCS120N06RA

Rev.B Dec.-2025

/ Descriptions

N TO-220

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

/ Features

$V_{DS} (V) = 60V$ $I_D = 120A (V_{GS} = \pm 20V)$

$R_{DS(ON)} @ 10V \ 6m$ (Typ. 4m)

$R_{DS(ON)} @ 6V \ 10m$ (Typ. 5m)

HF Product.

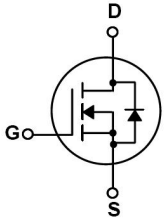
/ Applications

DC/DC

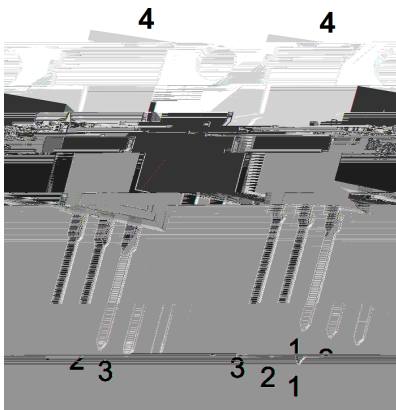
UPS

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

/ Equivalent Circuit



/ Pinning



PIN1 G

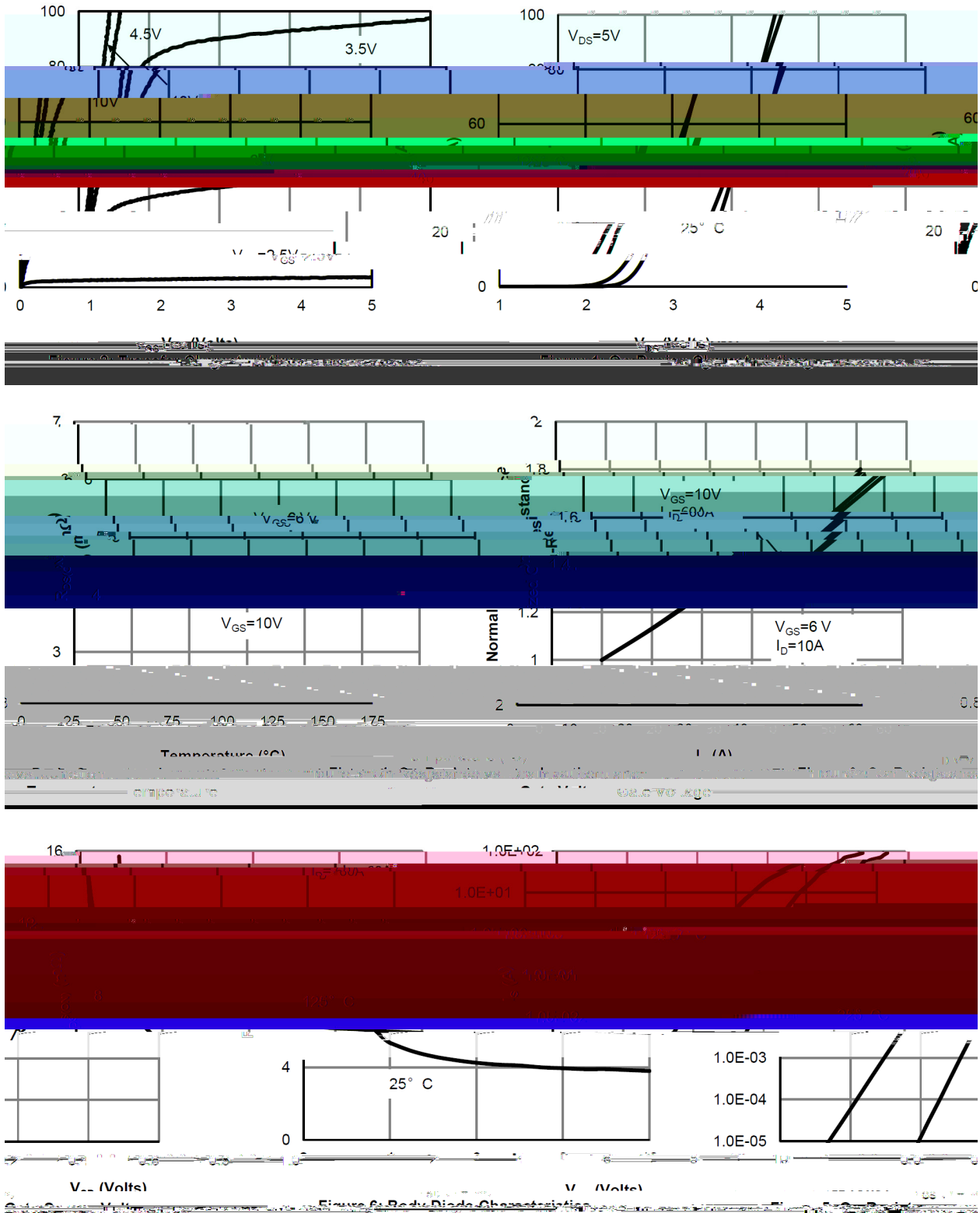
PIN 2 4 D

PIN 3 S

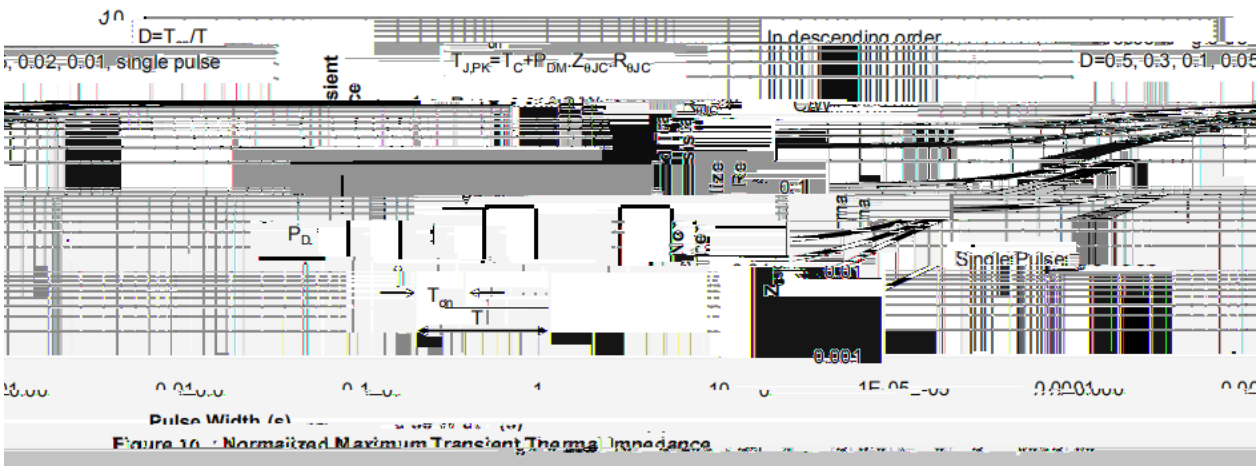
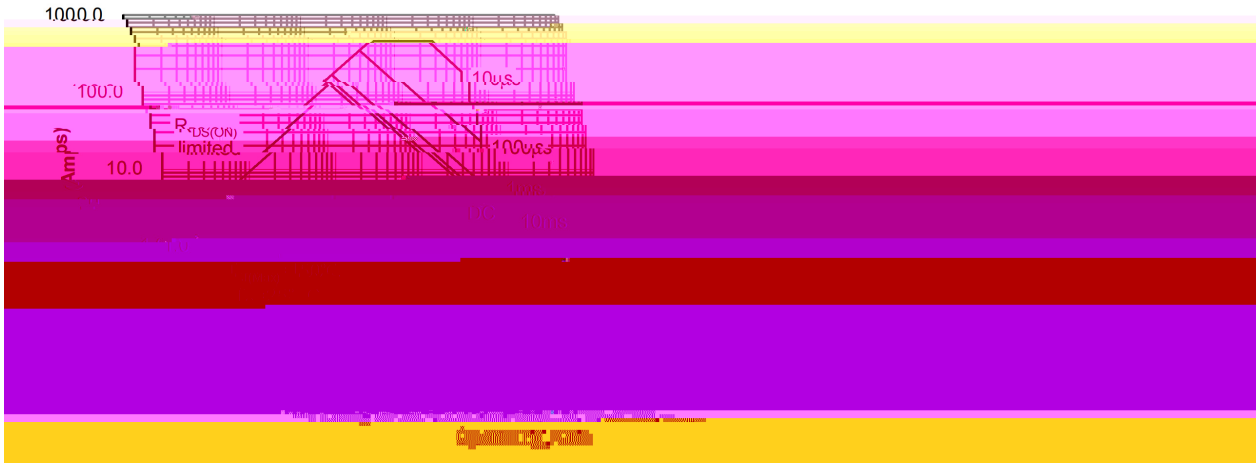
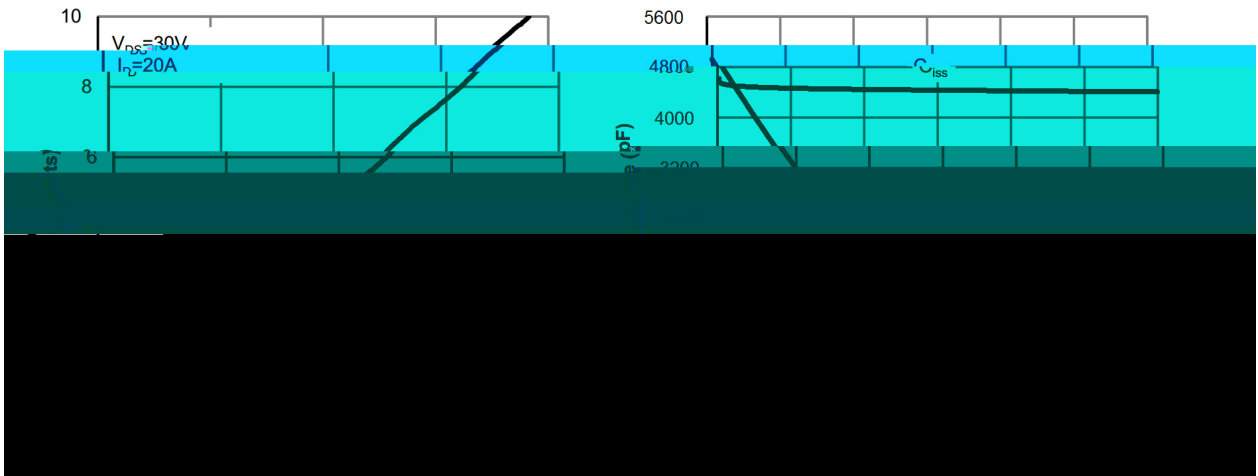
/ hFE Classifications & Marking

See Marking Instructions.

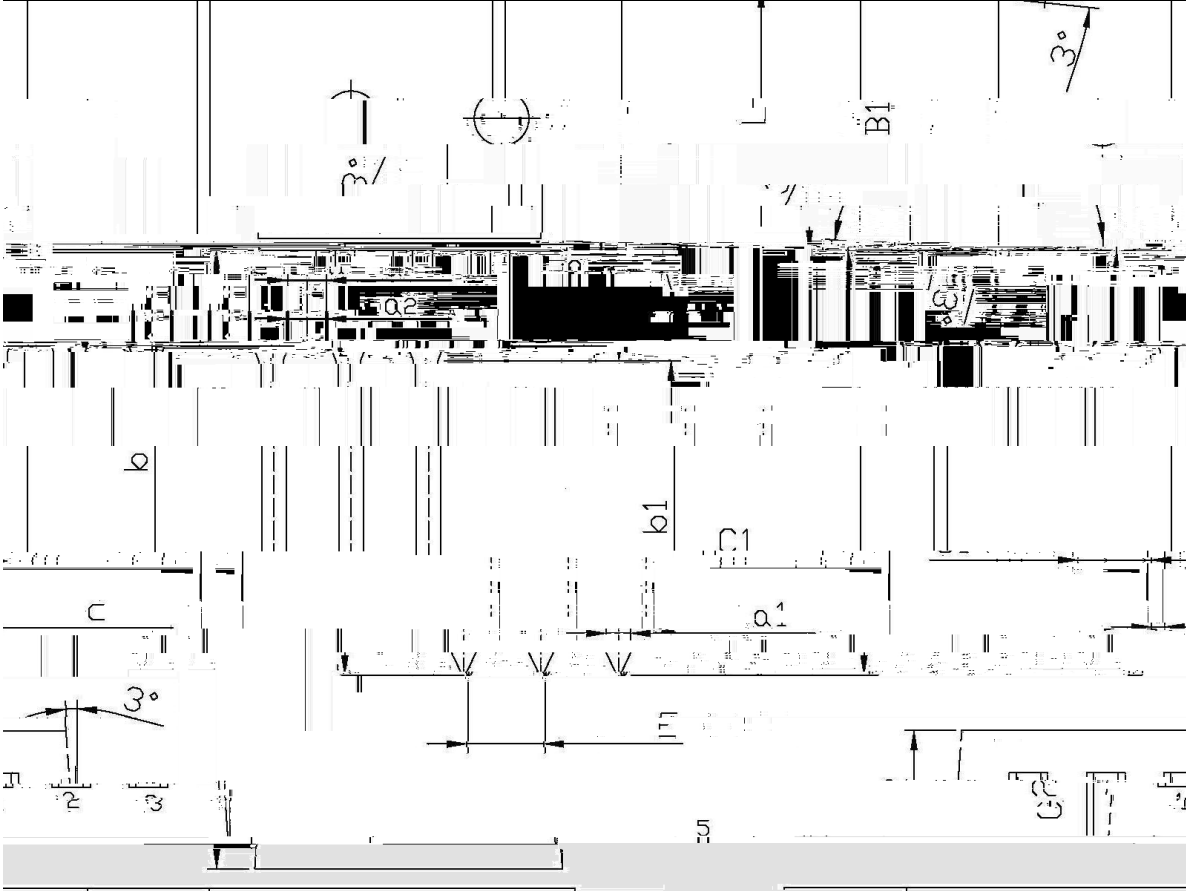
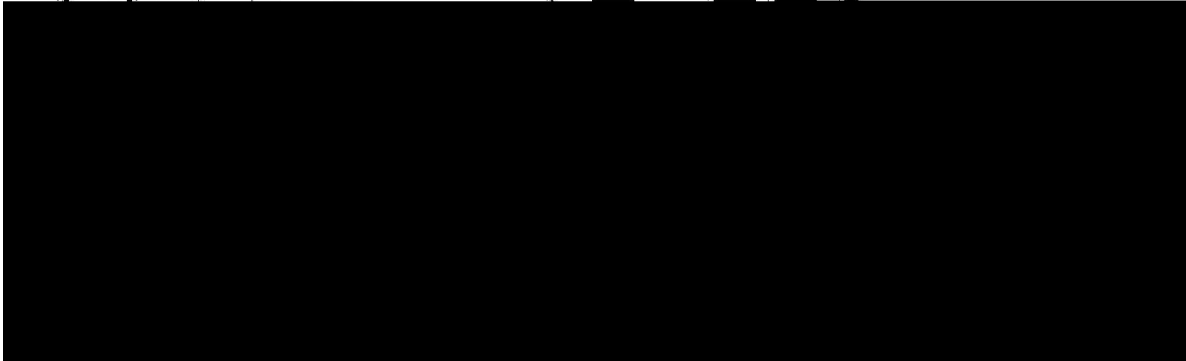
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions



Symbol	Min	Max	Symbol	Min	Max
A	12	14	A	9.8	10.2
B	6.3	6.7	R	3.56	3.64
D	9.0	9.4		15.7	16.1
C ₁	2.2	2.6	b	12.6	13.6

BRCS120N06RA

1
2
3

270±

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Package Type	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Bag	Inner Box	Outer Box
TOP.	(unit	mmubeT11	1 Tf2.9486	0 0983ec1	Fc05140a47f8d31dT4	1 Tf1.0004	2 TD-.0003	