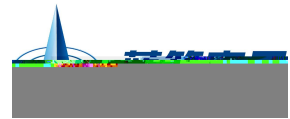


BRC50N06RA

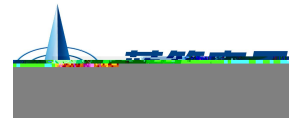
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DATA SHEET

/ ~Rev

A	2020.09.09		BRC50N06DP		



/ Descriptions

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

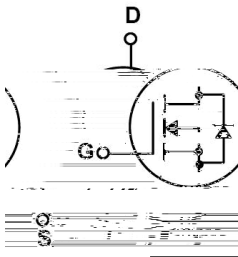
/ Features

DS(on) r_{DS}
Low R_{DS(on)}, low gate charge, low C_{rss}, fast switching, Trench Technologies. Halogen-free Product.

/ Applications

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.

/ Equivalent Circuit



/ Pinning



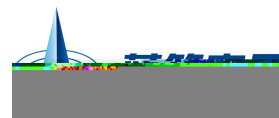
PIN1 G PIN 2 D PIN 3 S

/ h_{FE} Classifications & Marking

See Marking Instructions.

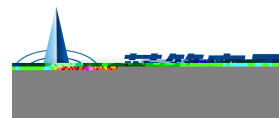
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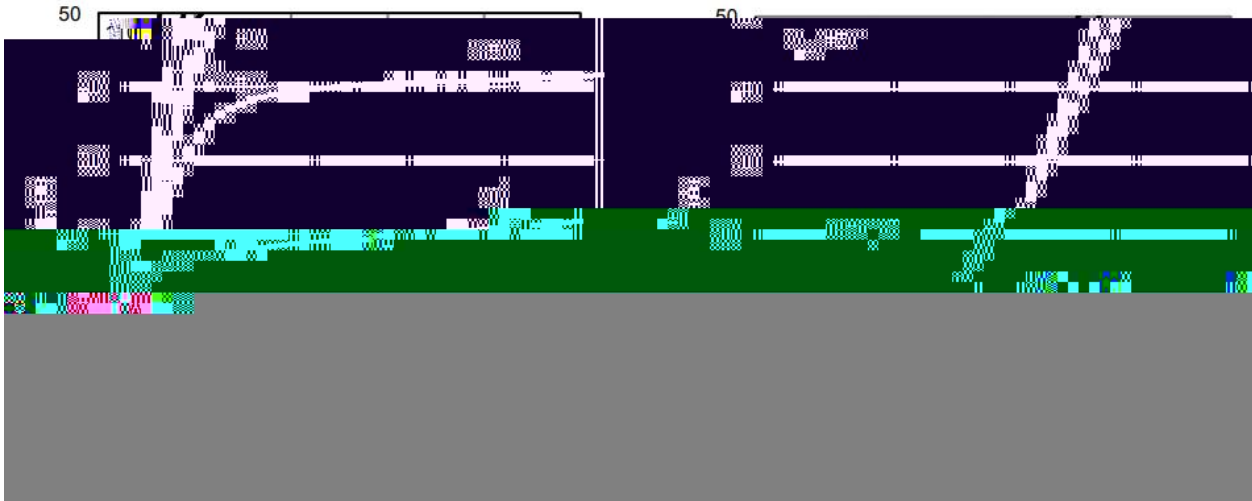
DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain Current	I		

**/ Electrical Characteristics(Ta=25)**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=30V$ $R_L=1.5\Omega$ $R_{GEN}=3$		8		ns
Turn-On Rise Time	t_r			5		
Turn-Off Delay Time	$t_{d(off)}$			30		
Turn-Off Fall Time	t_f			5.5		

/ Electrical Characteristic Curve

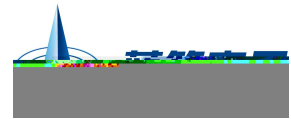


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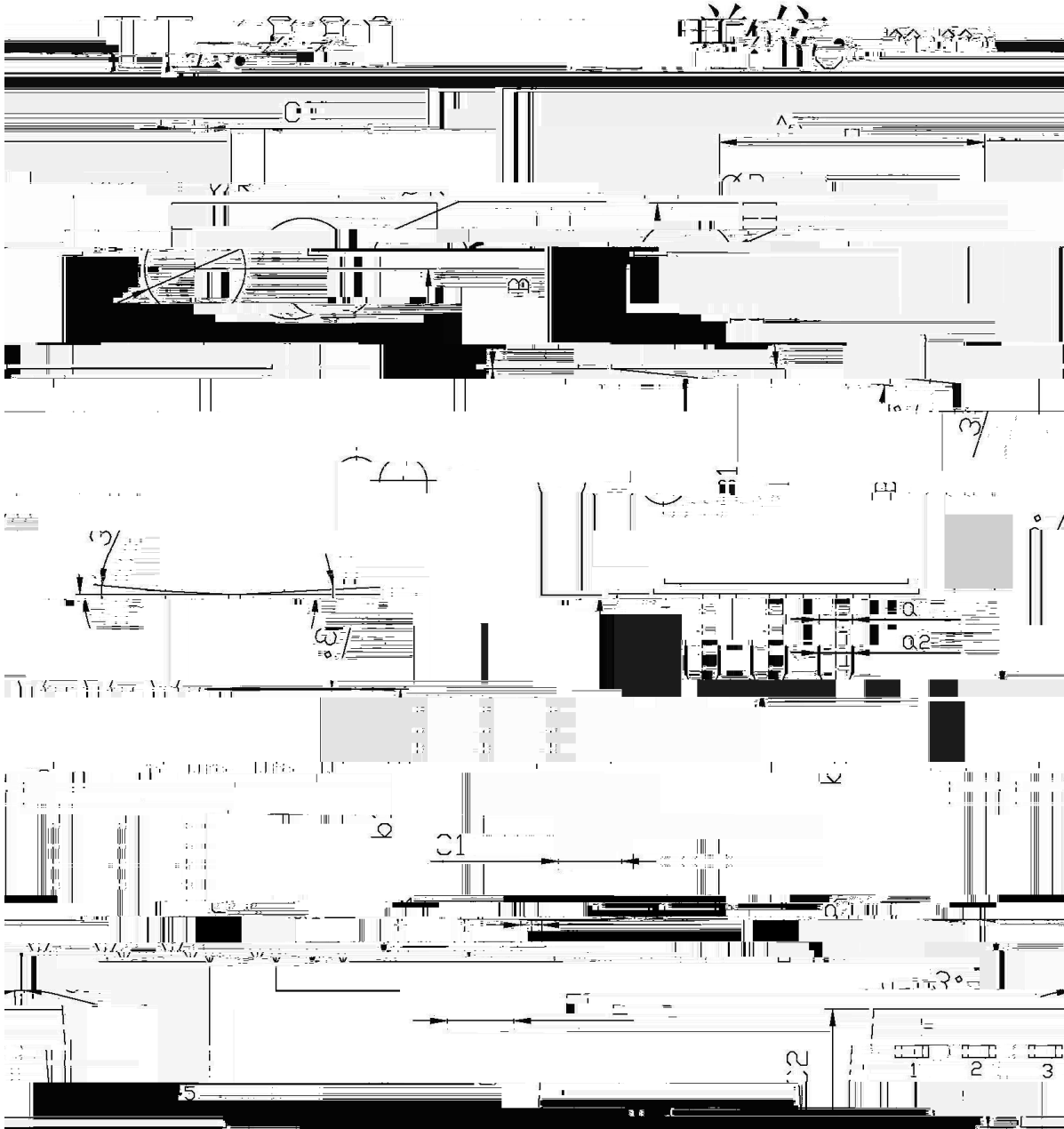
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/ Package Dimensions



Dimensions In Millimeters		Dimensions In Millimeters	
Symbol	Value	Symbol	Value
A	15.7	A1	12.3
B	16.1	A2	9.0
C	6.7	B1	9.4
D	3.56	B2	6.3
E	3.64		
F	1.25		
G	1.38		
H	1.74		
I	1.02		
J	1.43		
K	1.47		
L	1.25		
M	1.45		
N	1.02		

