

# BRC50N06RA

Rev.A Sep.-2020



DATA SHEET

/ ~Rev



**/ Descriptions**

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

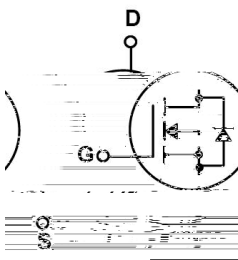
**/ Features**

DS(on) r<sub>DS</sub>  
Low R<sub>DS(on)</sub>, low gate charge, low C<sub>rss</sub>, 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<sub>FE</sub> Classifications & Marking**

See Marking Instructions.

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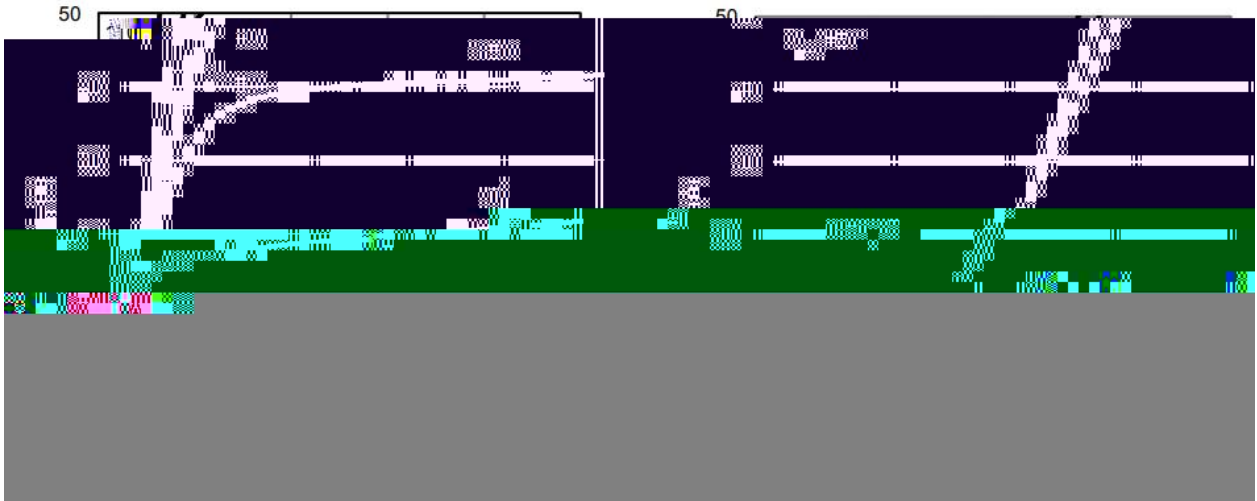
DATA SHEET

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**

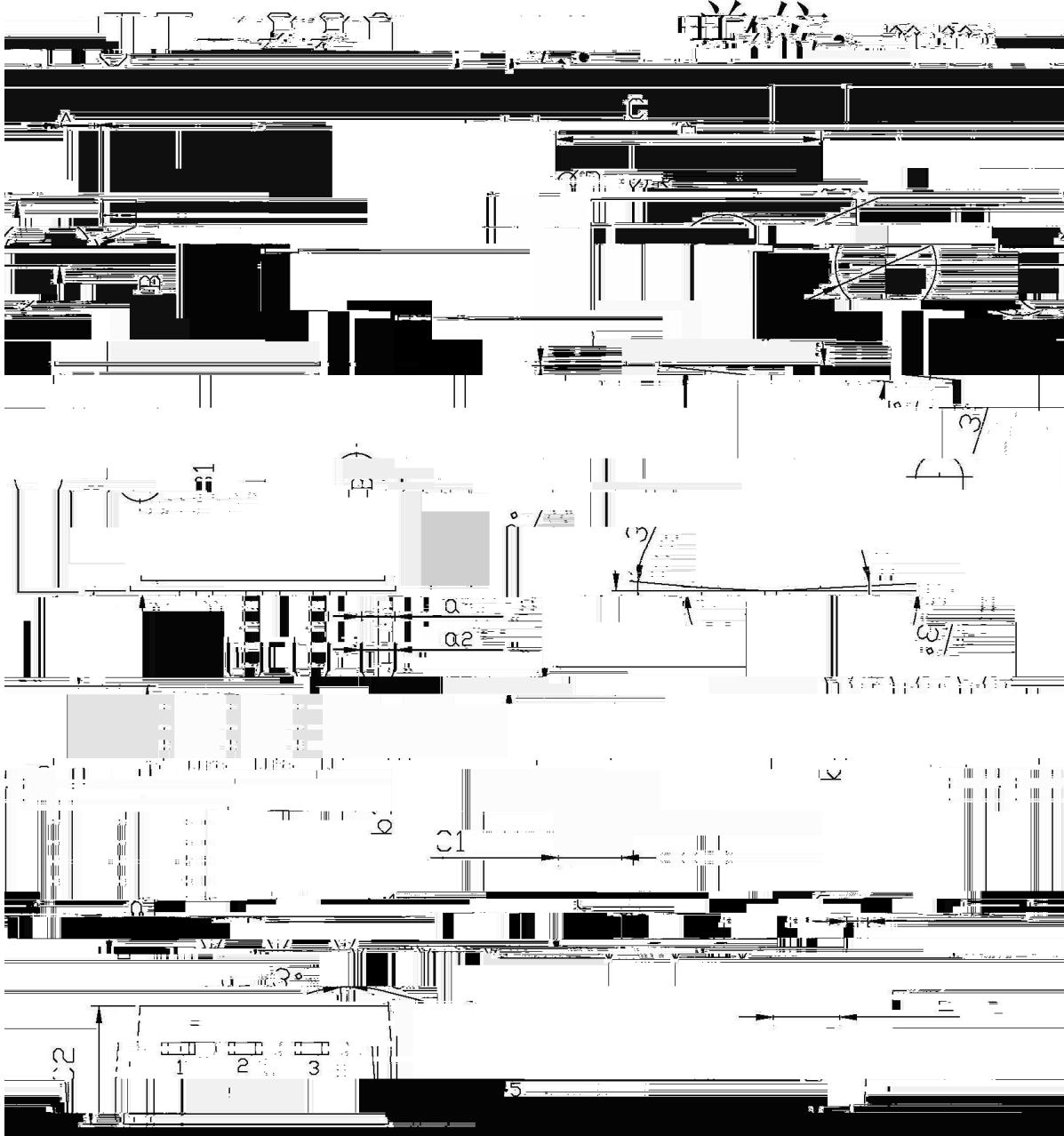


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**/ Package Dimensions**



Symbol		Dimensions In Millimeters		Symbol		Dimensions In Millimeters	
	15.7		16.1		9.0		9.4
	6.7		3.56		3.64		6.3
	2.34		1.274		4.3		4.7
	0.2		1.25		1.45		



