A	2020.09.09		BRCS50N06DP		

/ Descriptions

N TO-220

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

/ Features

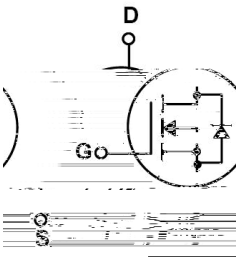
DS(on) rss

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

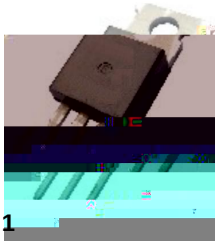
/ Applications

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

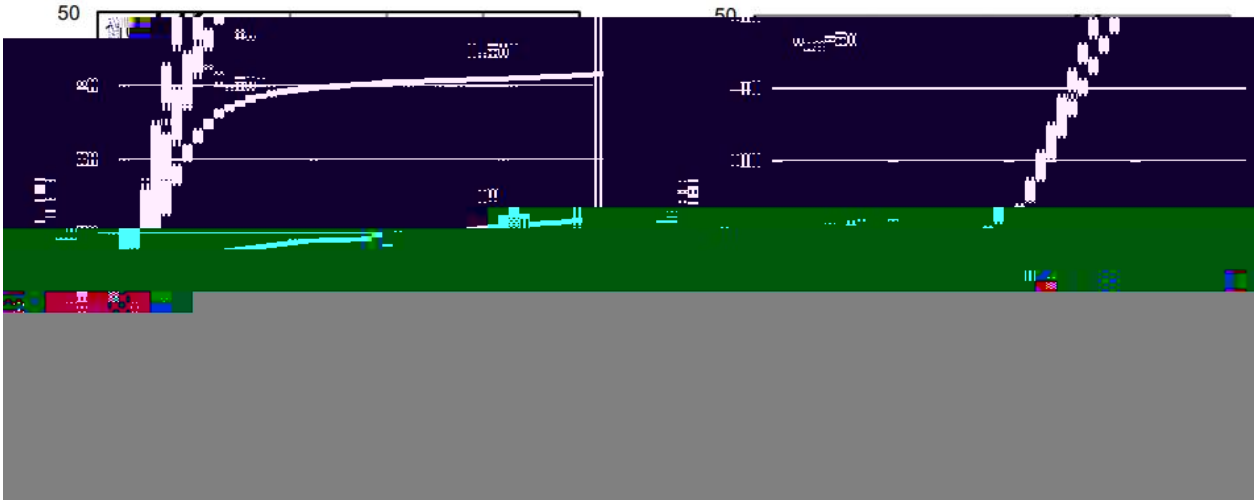
See Marking Instructions.

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

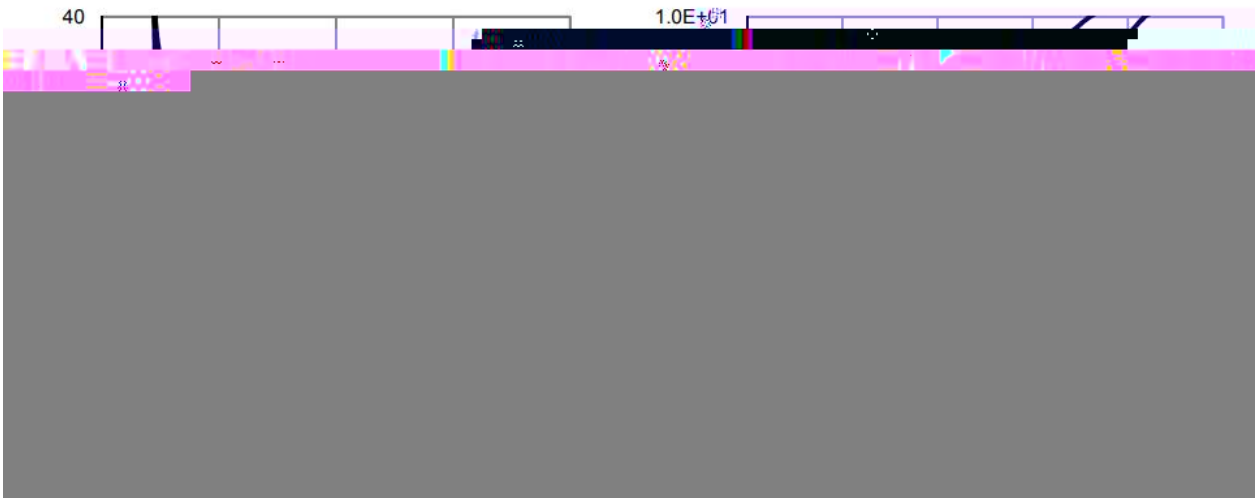
/ Electrical Characteristics(Ta=25)

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 Ω R_{GEN}=3Ω		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



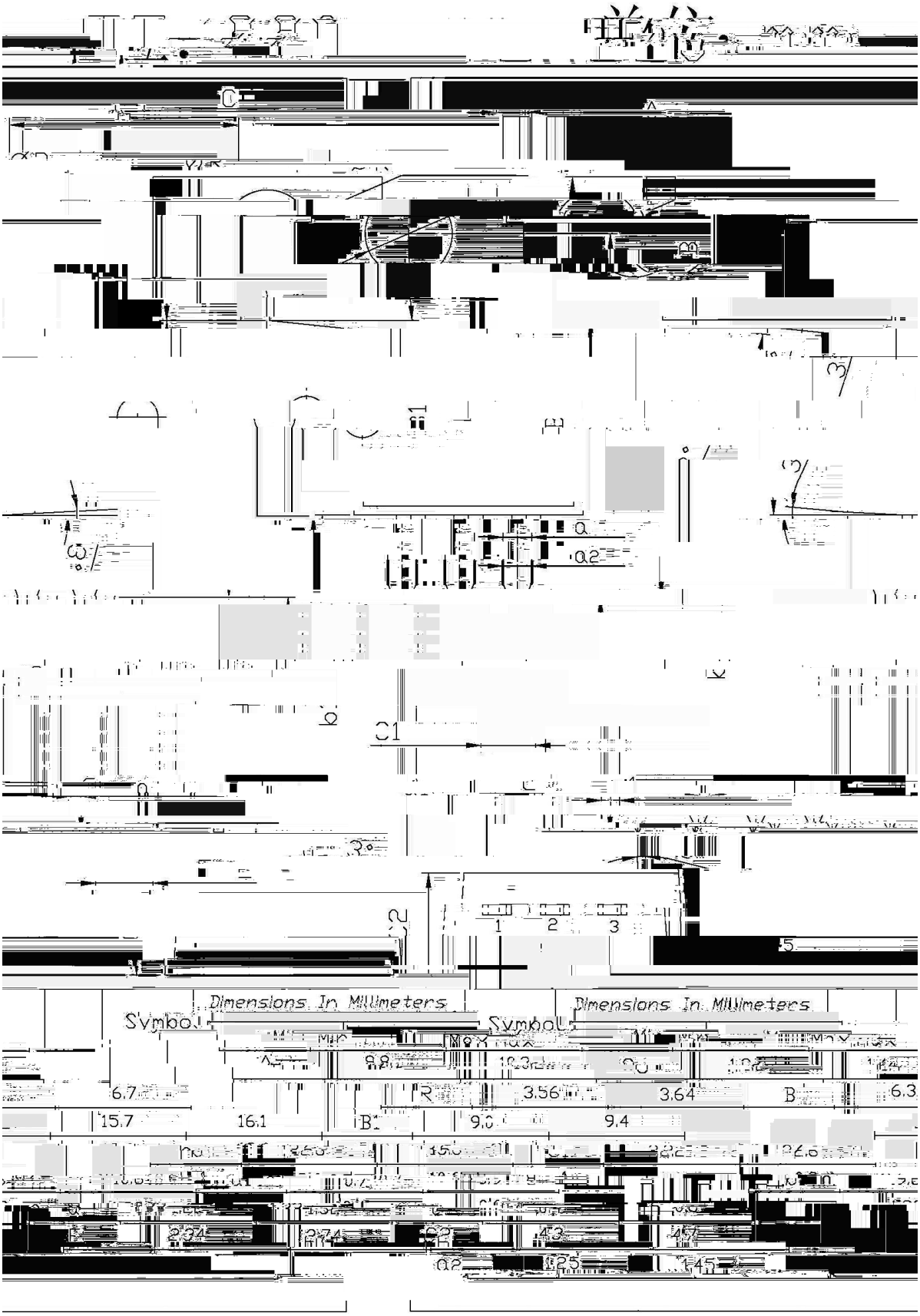




BRCS50N06RA

Rev.A Sep.-2020

/ Package Dimensions



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