

# BRCS20P06IP

Rev.B Feb.-2025

## / Descriptions

TO-251 P  
P-CHANNEL MOSFET in a TO-251 Plastic Package.

## / Features

$V_{DS} (V) = -60V$      $I_D = -20A (V_{GS} = \pm 20V)$   
 $R_{DS(ON)} @ -10V$  75m (Typ.62m )  
 $R_{DS(ON)} @ -4.5V$  100m (Typ.70m )  
HF Product.

## / Applications

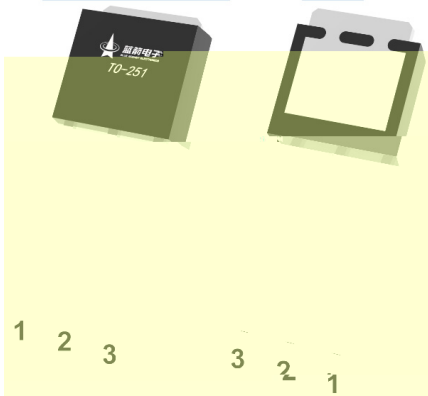
DC/DC

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

## / Marking

See Marking Instructions.

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DATA SHEET

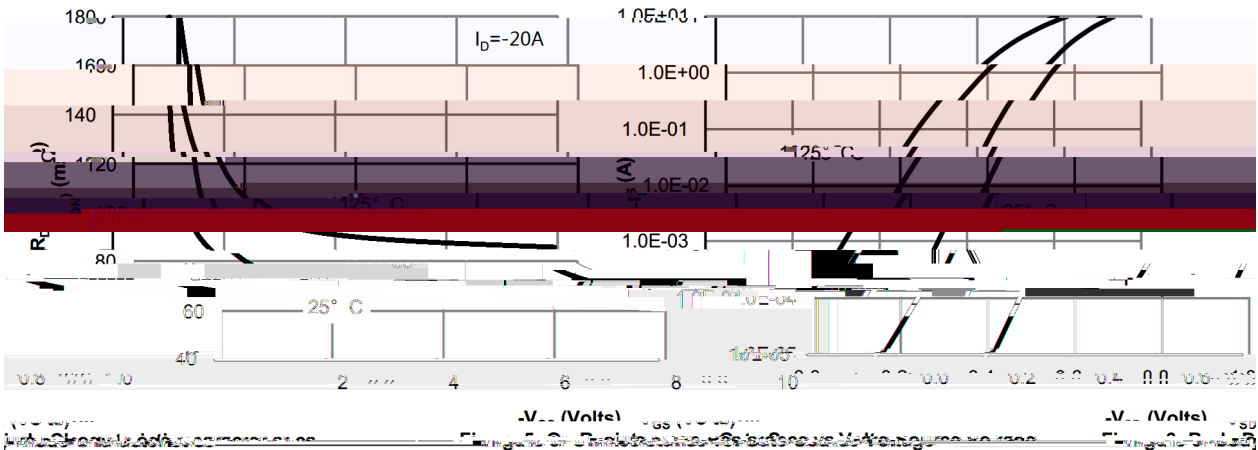
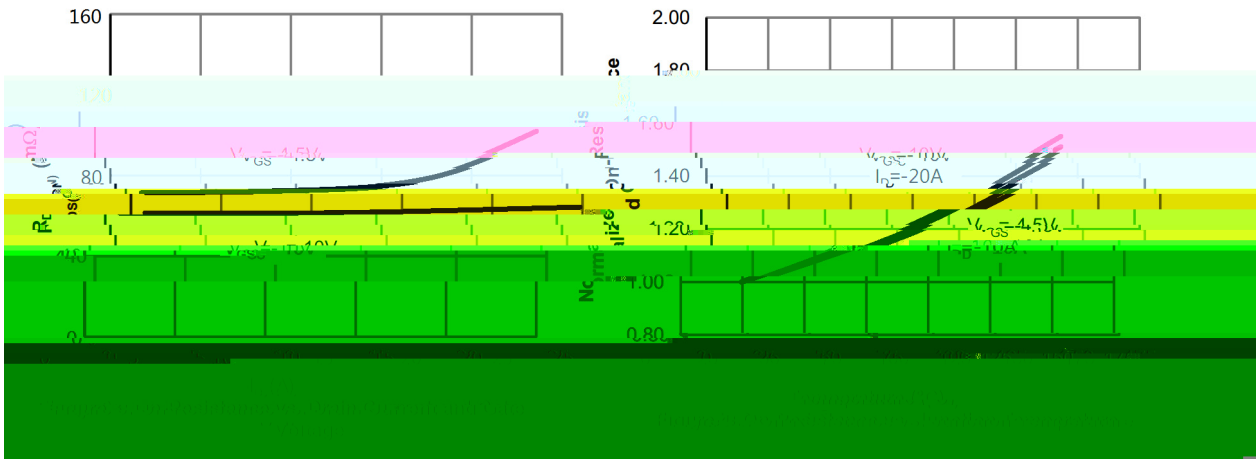
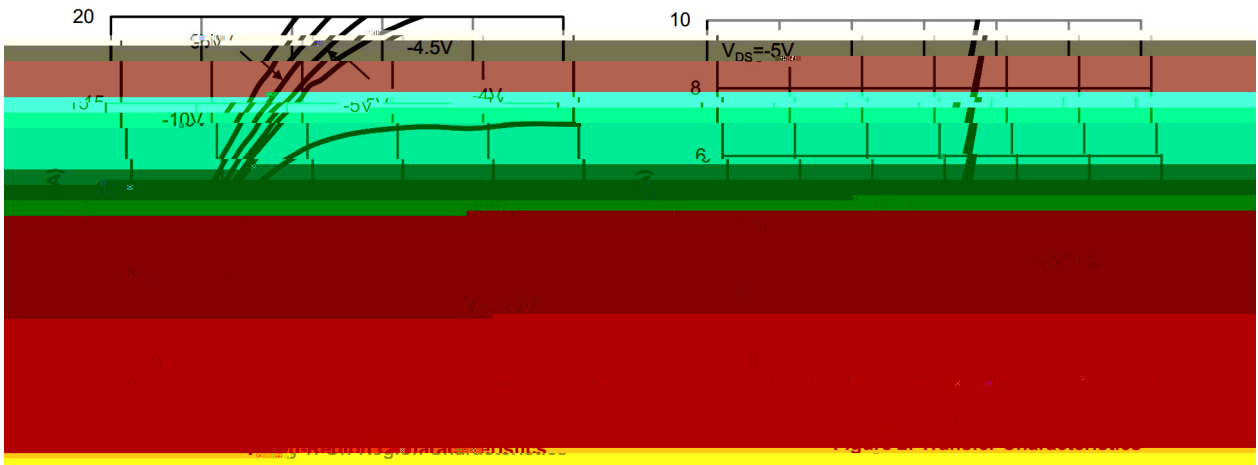
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	-60	V
Gate-Source Voltage	$V_{GSS}$	$\pm 20$	V
Continuous Drain Current	$I_D (T_c=25^\circ C)$	-20	A
Pulsed Drain Current	$I_{DM}$	-80	A
Avalanche Current	$I_{AS}$	-13.8	A
Avalanche energy L=0.5mH	$E_{AS}$	95	mJ
Power Dissipation for Single Operation	$P_D (T_c=25^\circ C)$	45	W
Maximum Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	
Thermal Resistance-Junction to Ambient	R		

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**DATA SHEET**

/ Electrical Characteristic Curve



**/ Electrical Characteristic Curve**

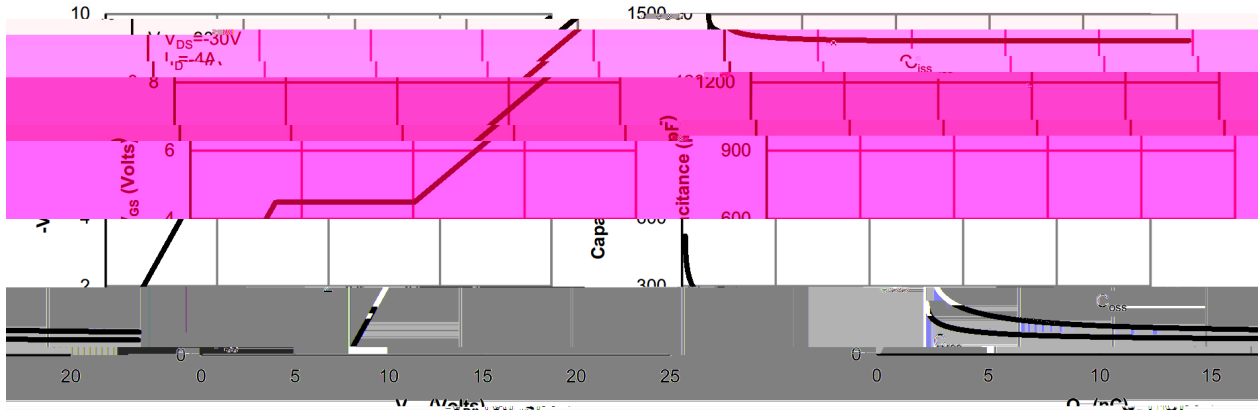
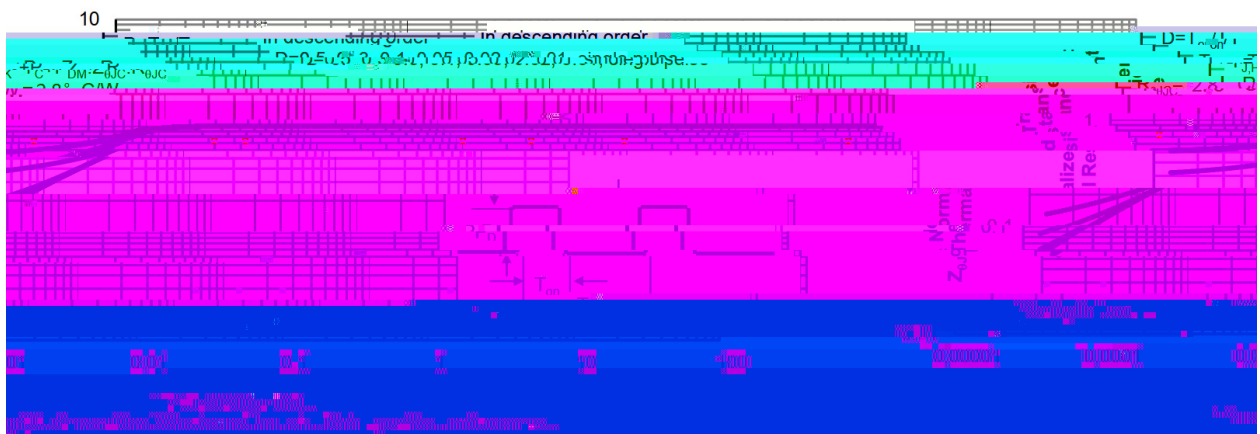
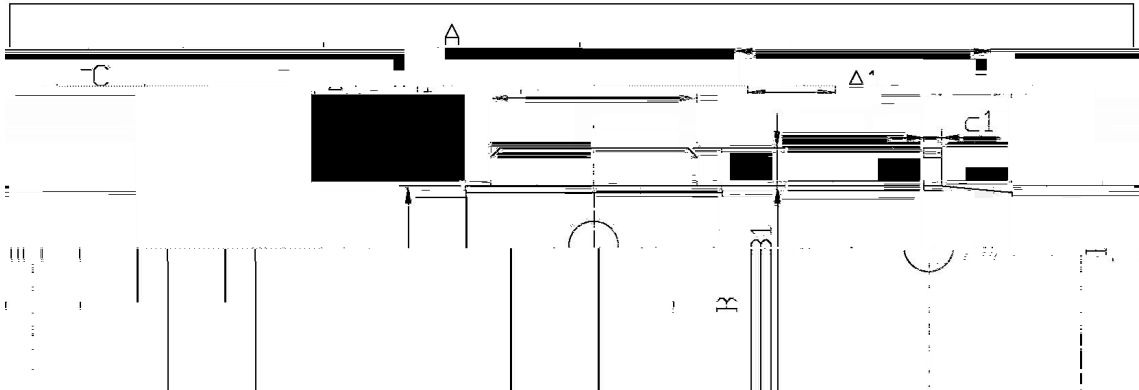


Figure 6: Capacitance Characteristics Figure 7: Gate Charge Characteristics

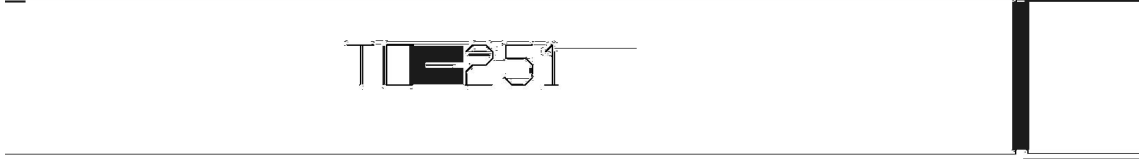


**/ Package Dimensions**



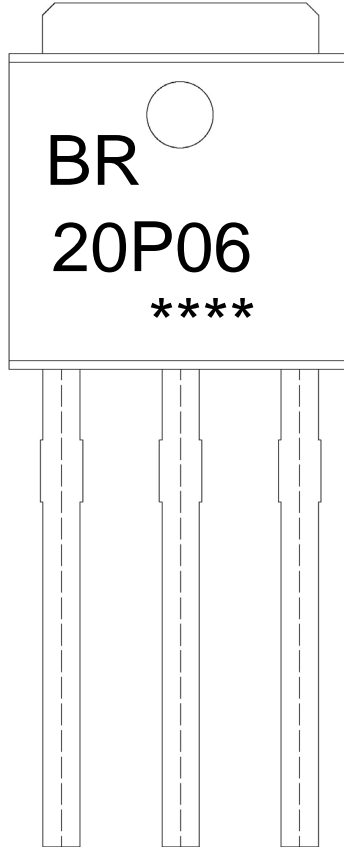
mm 单位:

Symbol	Min	Max	Symbol	Min	Max
A	3.50	5.00	C1	0.45	0.55
A'	3.50	5.00	e	0.95	1.25
C	0.95	1.25			
C1	0.45	0.55			
e	0.95	1.25			



TO-251

**/ Marking Instructions**



BR

20P06

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Note:

BR: Company Code

20P06: Product Type Code

\*\*\*\*: Lot No. Code, code change with Lot No

