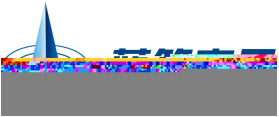




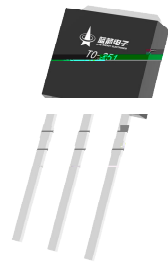
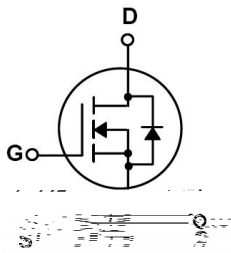
A	2019.12.24				
A	2021-12-24	6-7	TO-252#		
A	2022-6-17		BRCS50N06DP 251		



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

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

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.



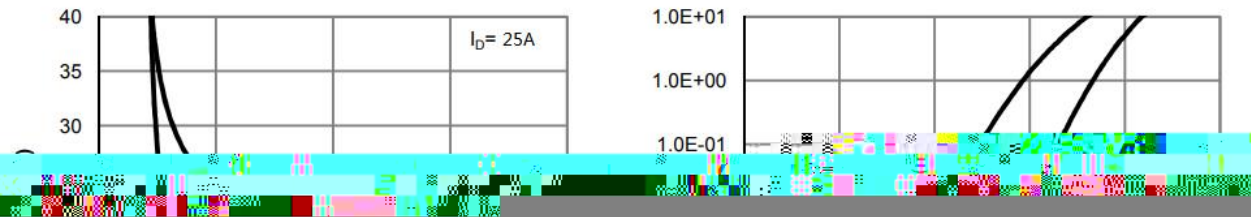
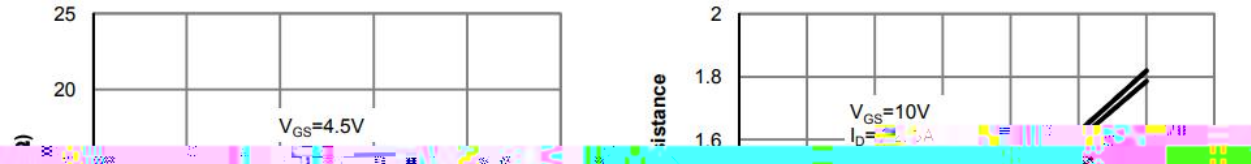
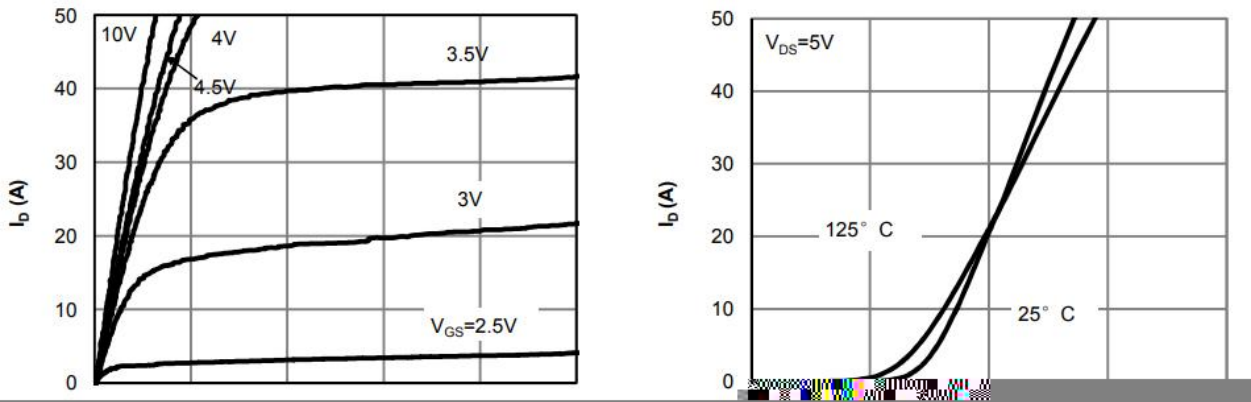
PIN1 G PIN 2 D PIN 3 S

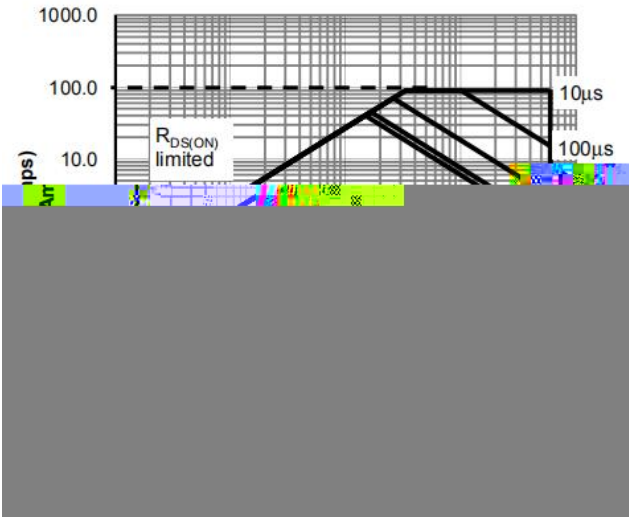
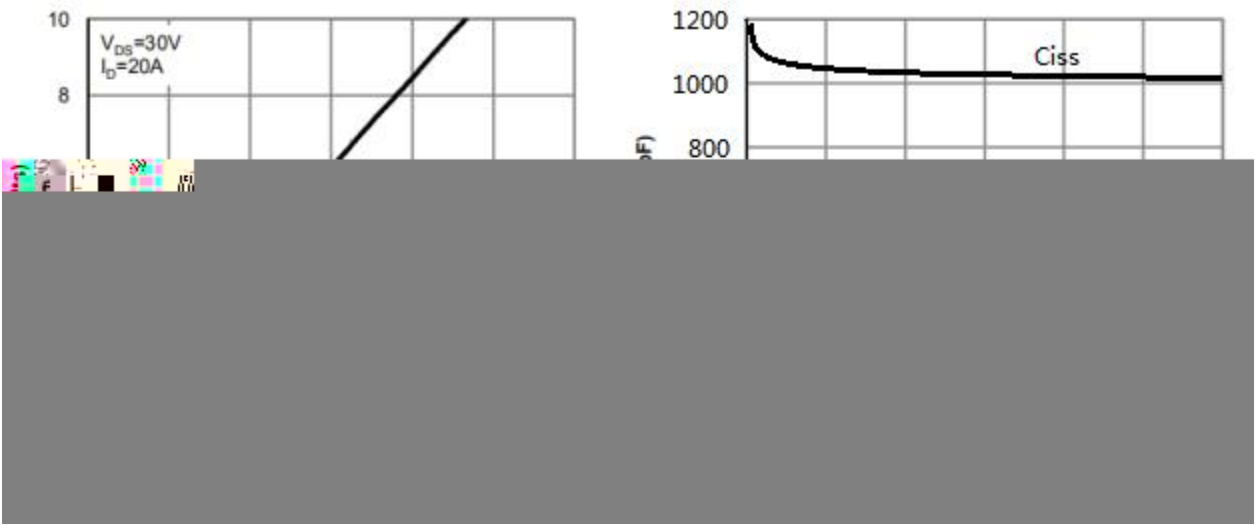
See Marking Instructions.

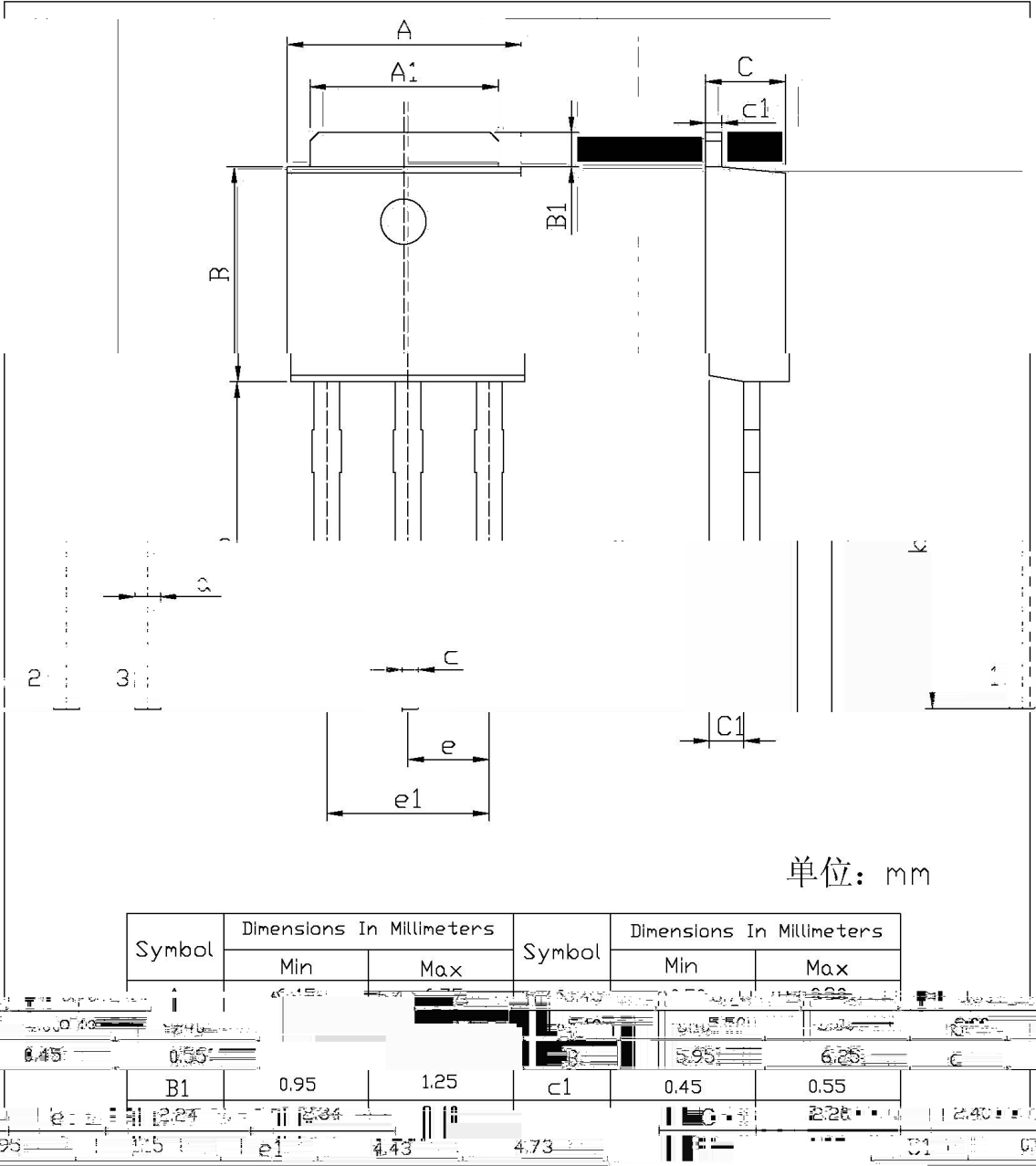


Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain Current	$I_D(T_c=25^{\circ}C)$	50	A
Drain Current - Pulsed	I_{DM}	200	A
Gate-Source Voltage	V_{GS}	± 20	V
Avalanche Current	I_{AS}	20	A
Single Pulsed Avalanche Energy	E_{AS}	170	mJ
Power Dissipation	$P_D(T_c=25^{\circ}C)$	60	W
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}C$
Thermal Resistance-Junction to Case	$R_{\theta JC}$	2.1	$^{\circ}C/W$
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	50	

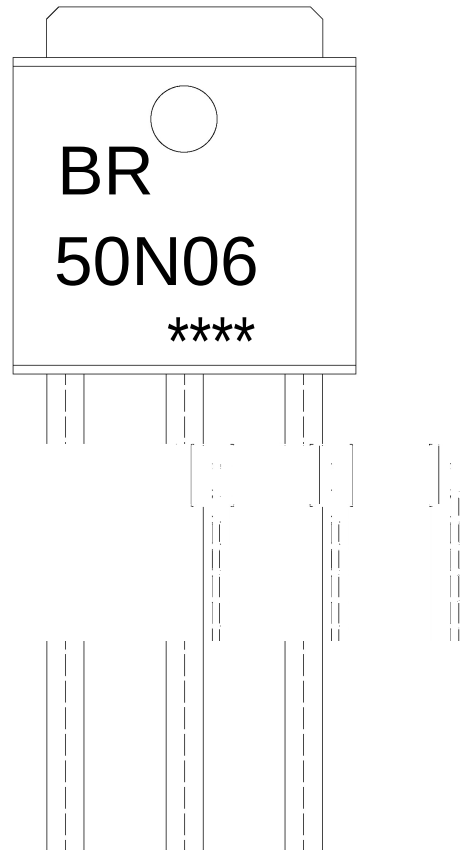
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	60	66		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=60nt$				







TC-251



说明：

BR： 为公司代码

50N06： 为型号代码

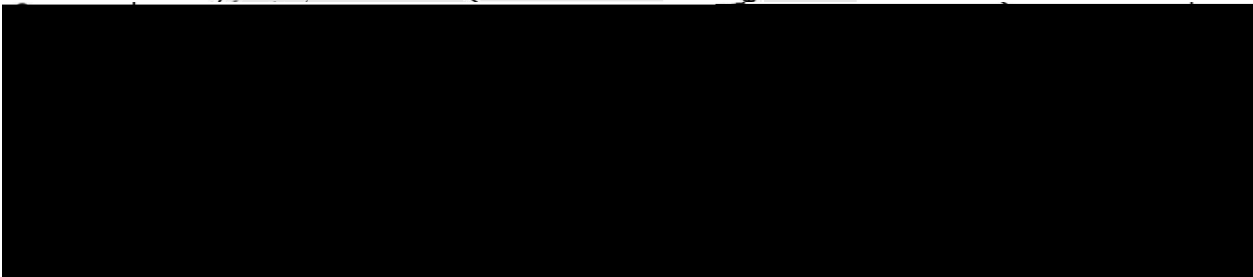
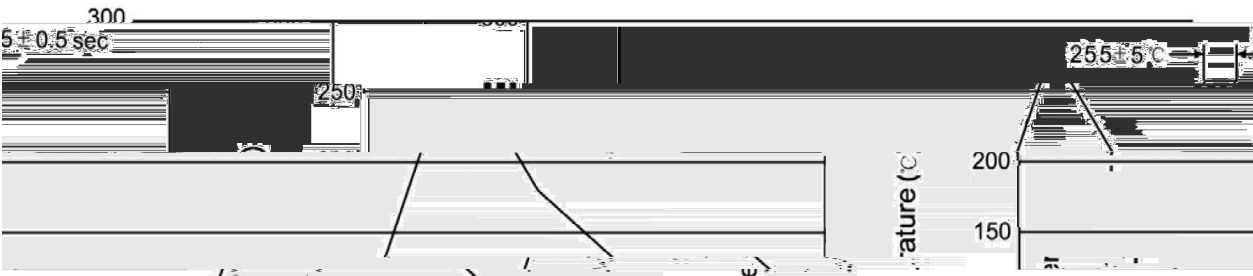
****： 为生产批号代码，随生产批号变化

Note:

BR: Company Code

50N06: Product Type Code

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



Note:

- | | | | | | |
|---|-------|-----|----|-----------|--|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150°C, Time:60~90sec. |
| 2 | 255±5 | | | 5±0.5sec; | 2.Peak Temp.:255±5°C, Duration:5±0.5sec. |
| 3 | | 2 | | 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. |

270±5°C 10±1 sec. Temp.:270±5°C Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-251	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180