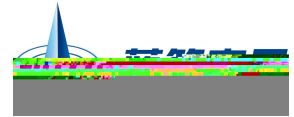


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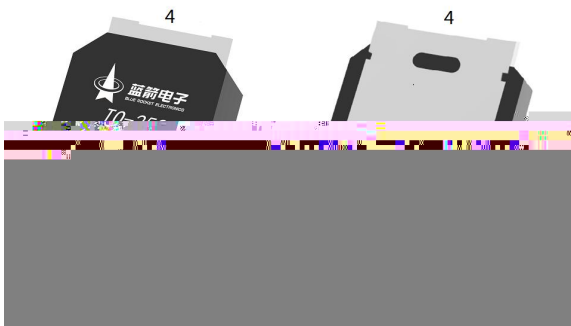
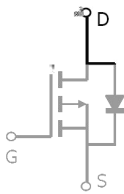


TO-252 P MOS
P-CHANNEL MOSFET in a TO-252 Plastic Package.

Low On-Resistance, fast switching, HF Product.

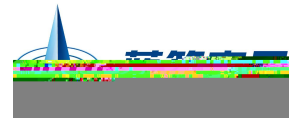
DC/DC

Power Management of Industrial DC/DC Converter.



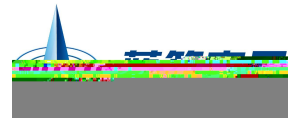
PIN 1 G PIN 2 D PIN 3 S PIN 4 D

See Marking Instructions.



参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	V_{DS}	-30	V
Drain Current - Continuous	$I_D(T_c=25^\circ\text{C})$	-40	A
Drain Current – Pulsed	I_{DM}	-100	A
Gate-Source Voltage	V_{GS}	20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	62.5	W
Single Pulse Avalanche Energy(L=0.5mH)	E_{AS}	152	mJ
Avalanche Current(L=0.5mH)	I_{AS}	-19.5	A
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150	$^\circ\text{C}$
Thermal resistance, junction - ambient	t 10s	R_{JA}	$^\circ\text{C}/\text{W}$
	Steady-State		
Thermal resistance, junction - case	Steady-State	R_{JC}	2.0

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
	BV_{DSS}	$I_D=-250\mu\text{A}$ $V_{GS}=0\text{V}$	-30	-34		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-30\text{V}$ $V_{GS}=0\text{V}$			-1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS}=0\text{V}$, $V_{GS}=\pm 20\text{V}$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=-250\mu\text{A}$	-1	-1.3	-2.5	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	$V_{GS}=-10\text{V}$, $I_D=-20\text{A}$		19	22	m Ω
		$V_{GS}=-4.5\text{V}$, $I_D=-10\text{A}$		27	32	
Diode Forward Voltage	V_{SD}	$I_S=-1\text{A}$, $V_{GS}=0\text{V}$			-1.2	V
Input Capacitance	C_{iss}	$V_{DS}=-25\text{V}$ $V_{GS}=0\text{V}$ $f=1.0\text{MHz}$		1430		pF
Output Capacitance	C_{oss}			580		
Reverse Transfer Capacitance	C_{rss}			350		
Gate resistance	R_g	$V_{GS}=0\text{V}$ $V_{DS}=0\text{V}$ $f=1\text{MHz}$		13		
Total Gate Charge	$Q_{g(10V)}$	$V_{GS}=-10\text{V}$, $V_{DS}=-20\text{V}$, $I_D=-20\text{A}$		31.2		nC
Total Gate Charge	$Q_{g(4.5V)}$			8.0		
Gate Source Charge	Q_{gs}			7.6		
Gate Drain Charge	Q_{gd}			6.3		

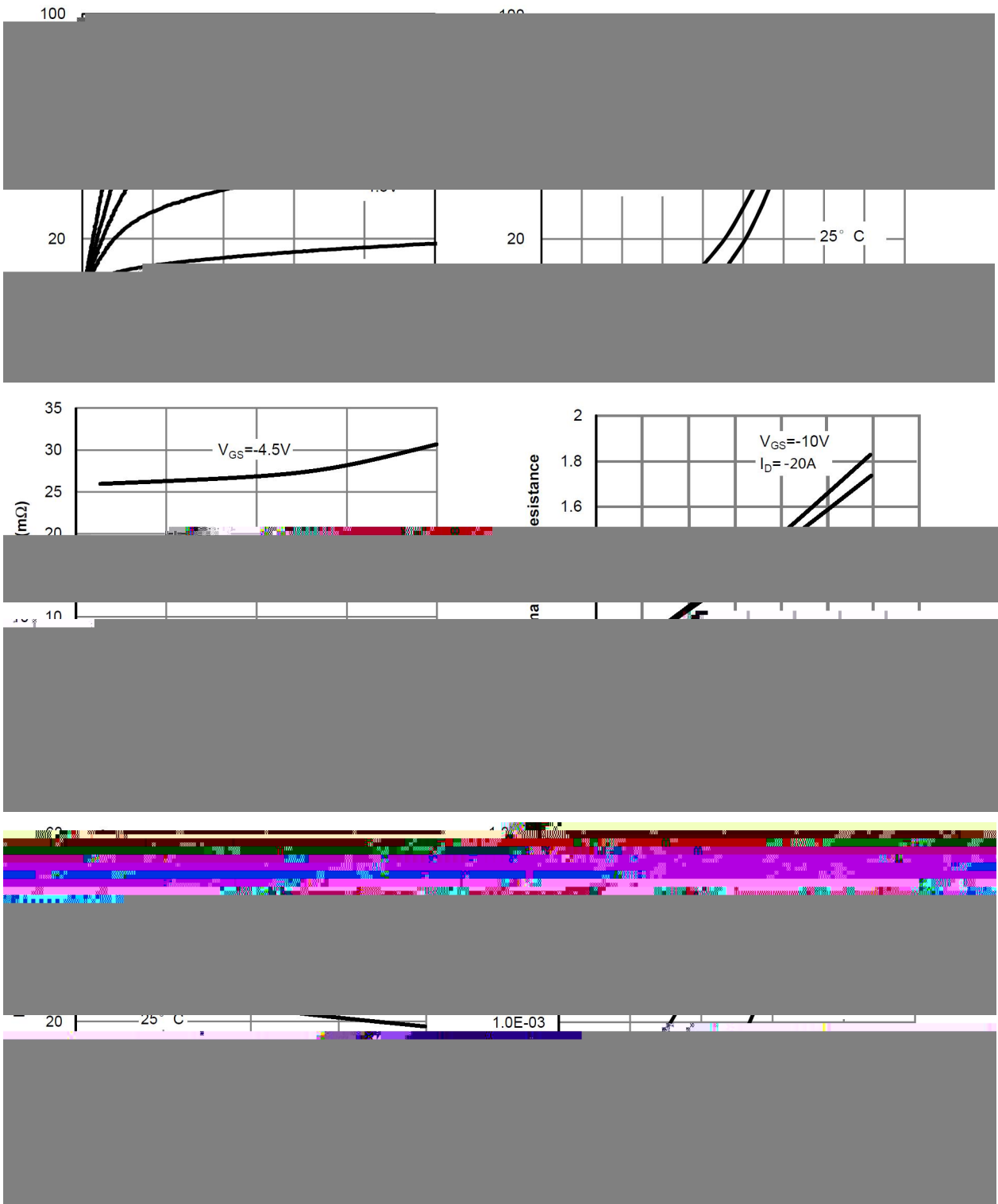
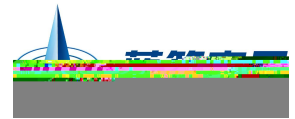


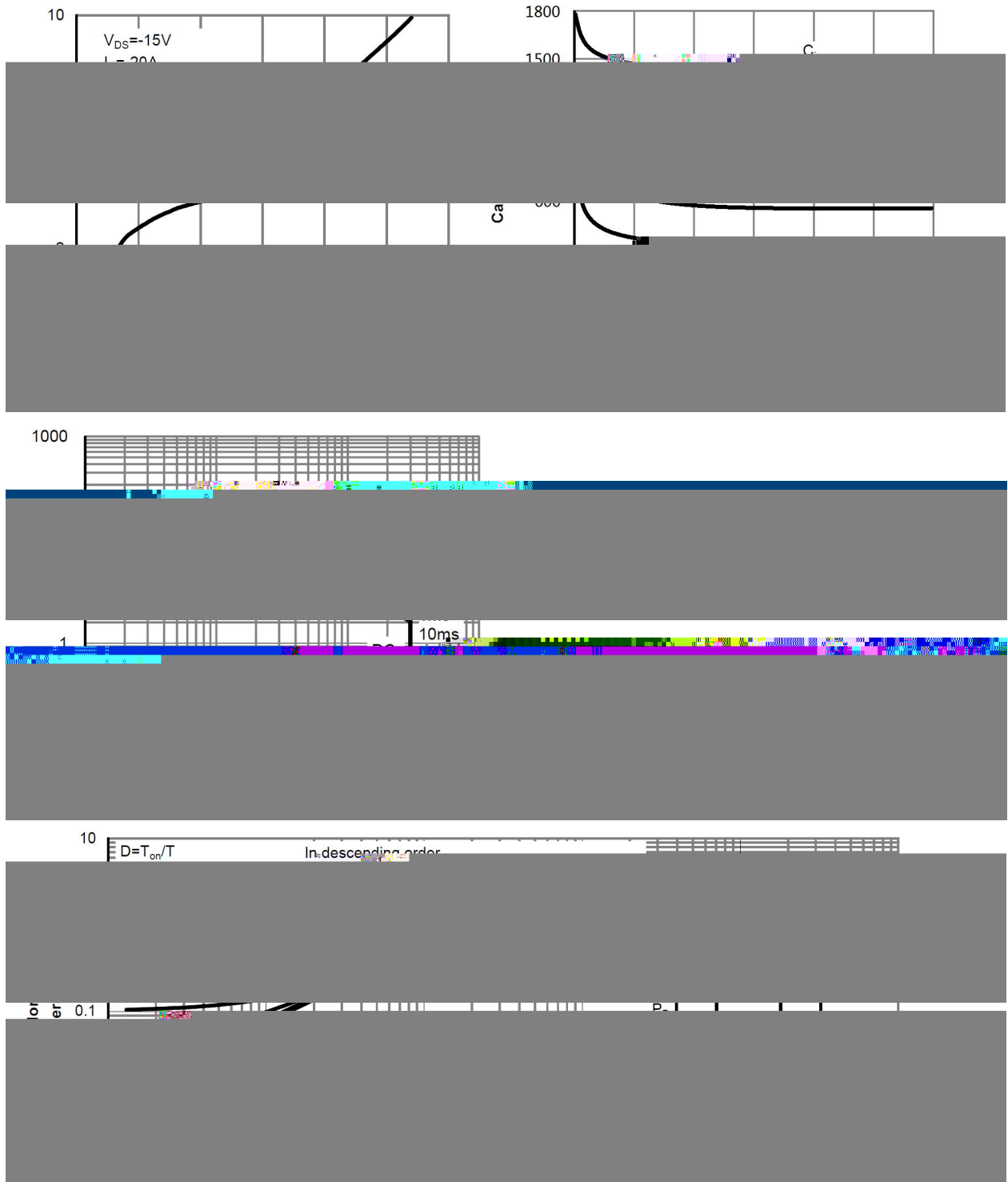
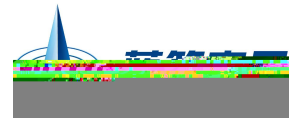
参数
Parameter

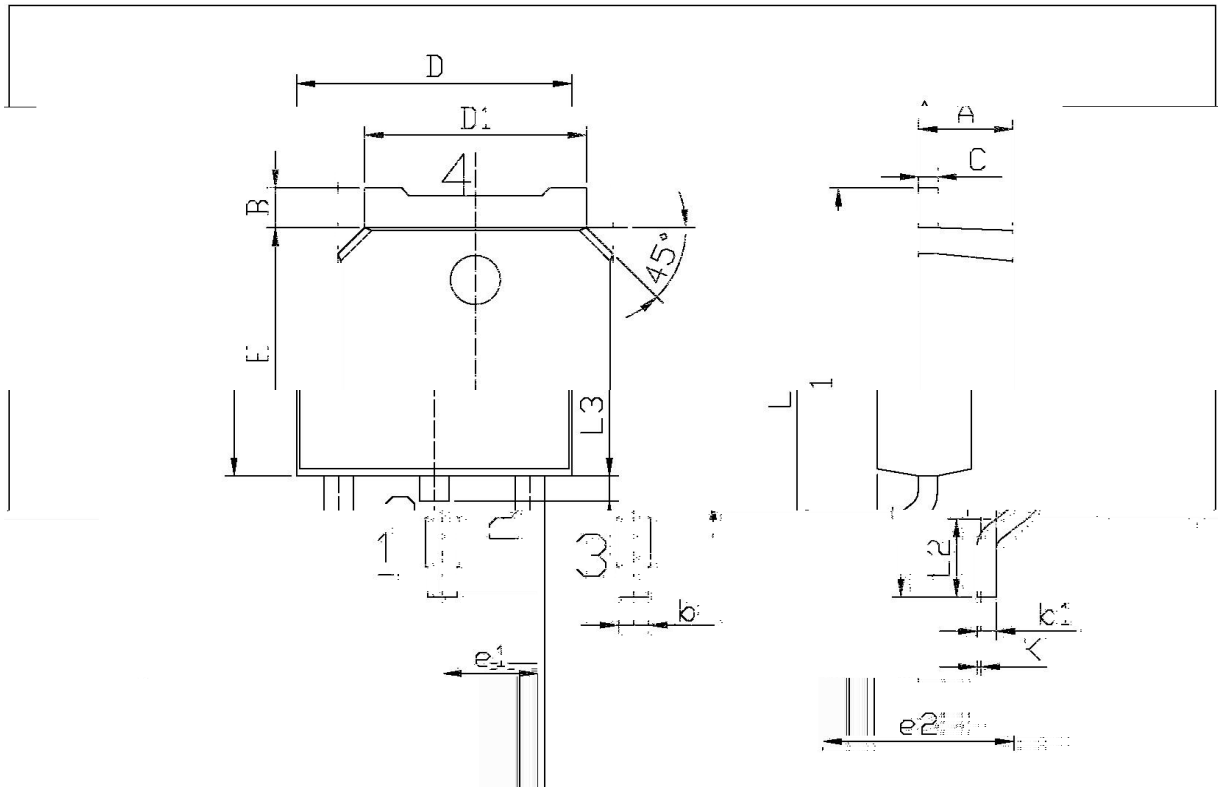
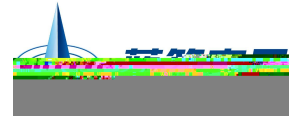
符号
Symbol

测试条件
Test Conditions

最小值 典型值
Min T



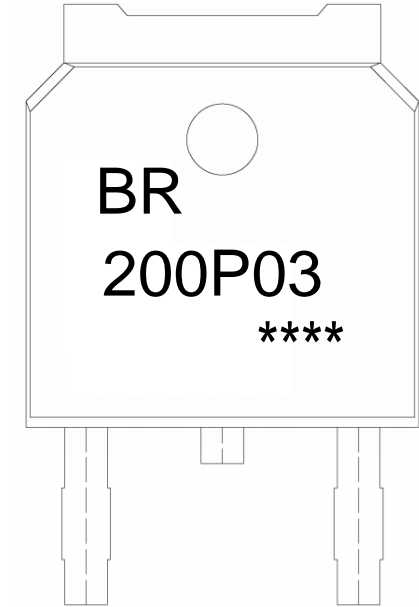
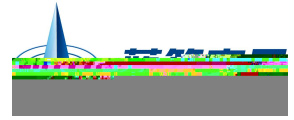




单位: mm

Dimensione In Millimetri				Dimensione In Millimetri			
Symbol	Max	Min	Symbol	Max	Min	Symbol	Max
e1	2.24	2.34	B	0.95	1.28	L3	0.60
e2	4.48	4.70	C	0.45	0.55	D	6.45
L1	9.85	10.35	L2	1.70	2.00	D1	5.19
C	0.45	0.55	L2	1.70	2.00	D1	5.50
0.90			D	6.45	6.75	L3	0.60
0.90			D1	5.19	5.50	B	0.95

TN-252



说明：

BR： 为公司代码

200P03： 为产品型号

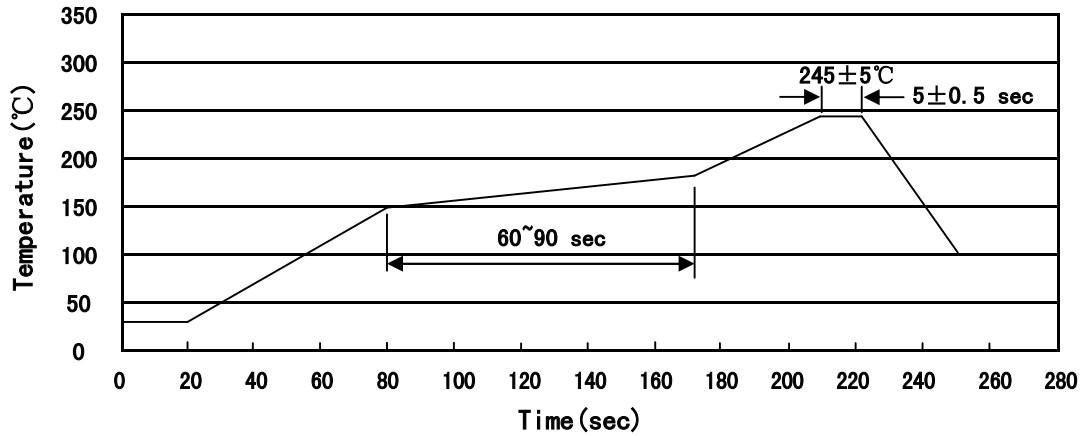
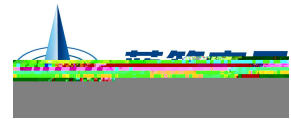
****： 为生产批号代码，随生产批号变化

Note:

BR: Company Code

200P03: Product Type

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



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|--|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | | 2 | 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	6	30,000	13" ×16	360×360×50	380×335×366

/ 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