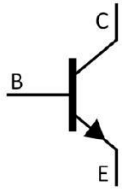


Silicon NPN transistor in a TO-220F Plastic Package.

High voltage high speed switching.

Switching regulator applications, High voltage switching applications, High speed DC-DC converter applications.

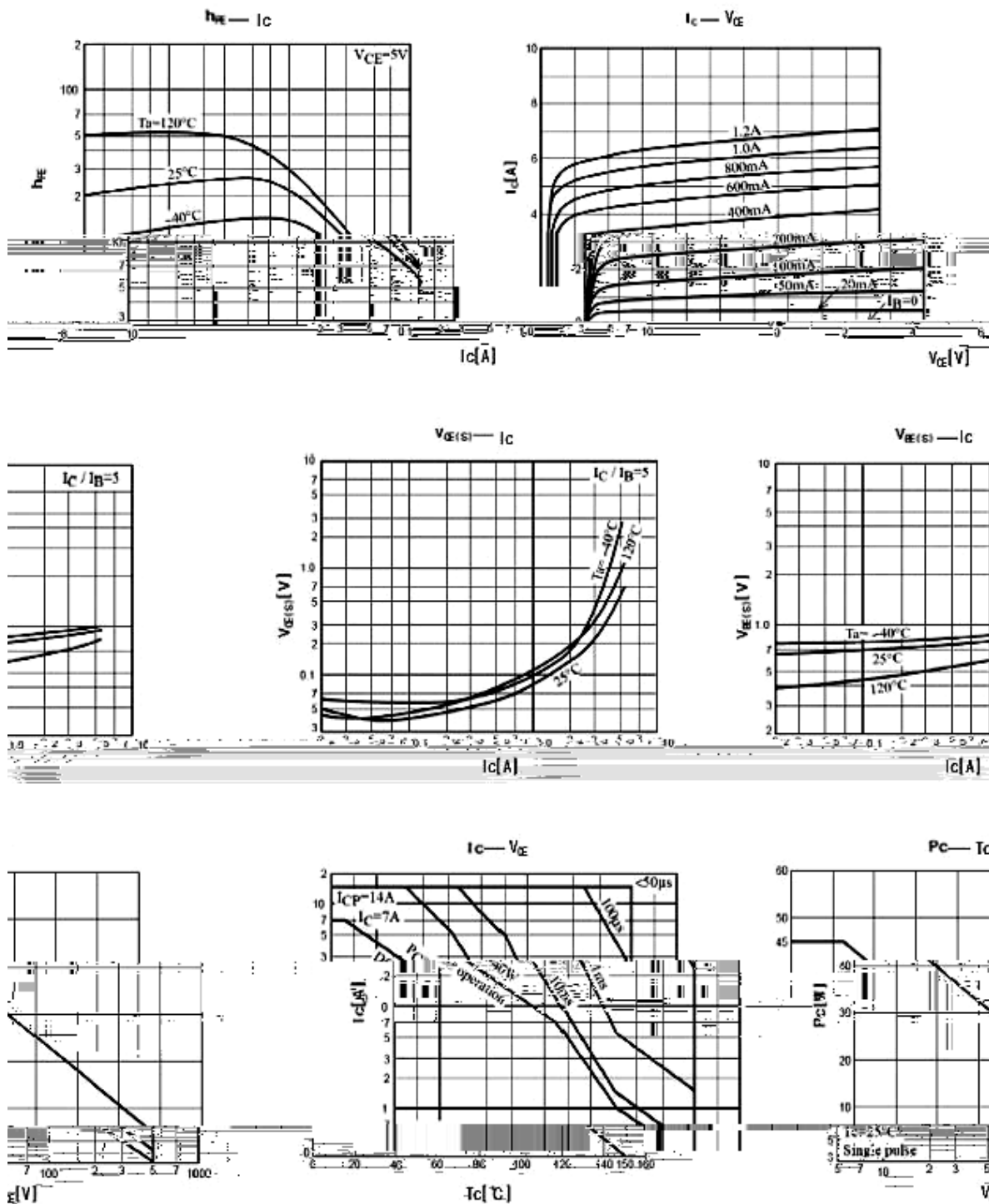


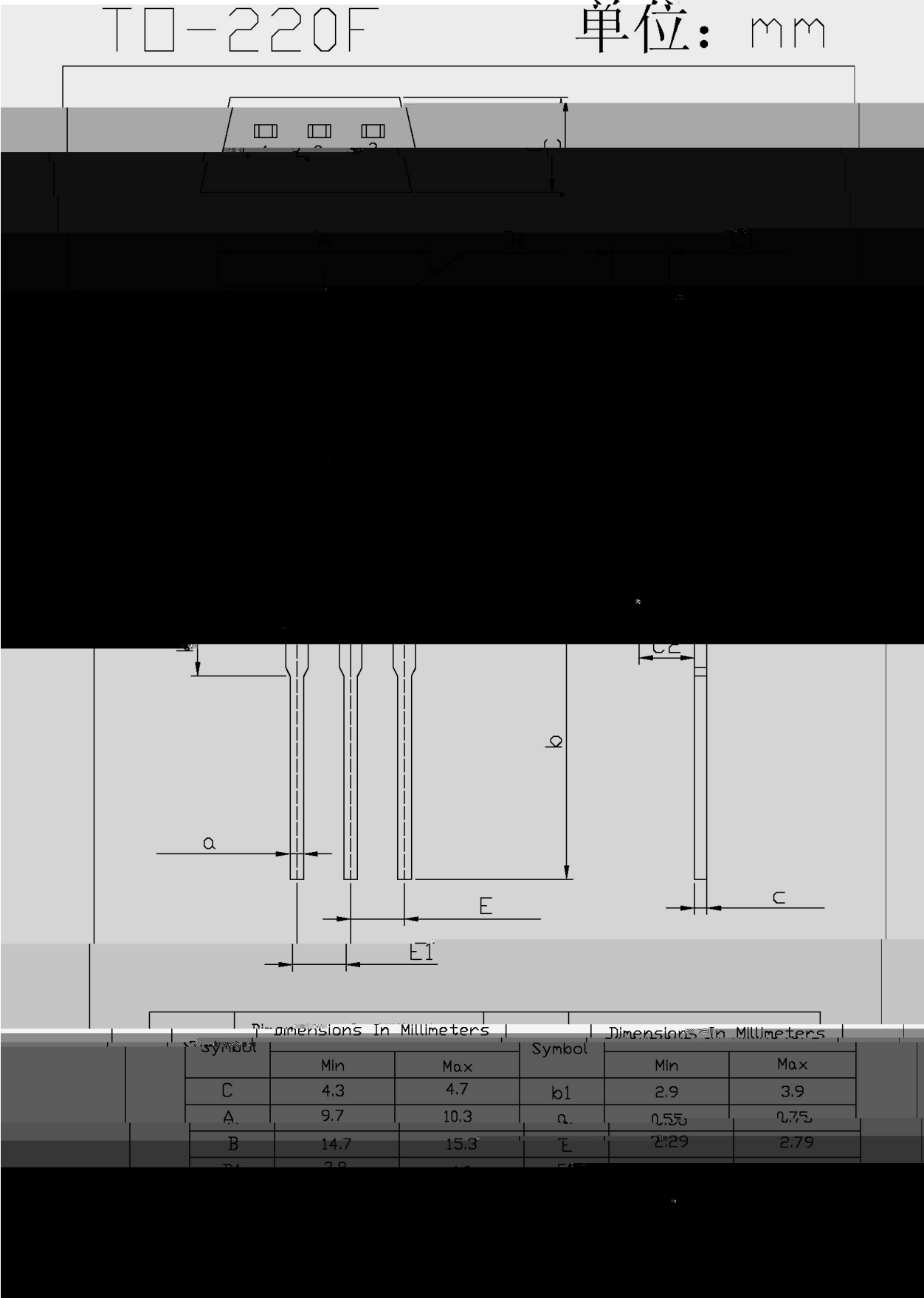
PIN1	Base	PIN 2	Collector	PIN 3	Emitter
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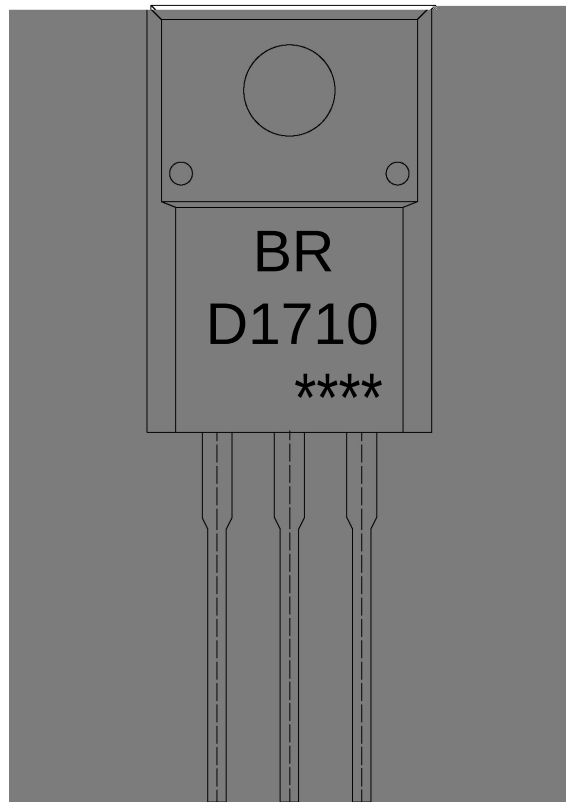
See Marking Instructions .

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	900	V
Collector to Emitter Voltage	V_{CEO}	500	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	7.0	A
Peak Collector Current	I_{cm}	14	A
Collector Power Dissipation	$P_C(T_c=25^\circ C)$	45	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=1mA$ $I_B=0$	900			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA$ $I_B=0$	500			V
Collector Cut-Off Current	I_{CEO}	$V_{CE}=500V$ $I_E=0$			250	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5V$ $I_C=0$			10	A
Collector Cut-Off Current	I_{CBO}	$V_{CB}=900V$ $I_C=0$			100	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0V$ $I_C=0.6A$	15		40	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=3.0A$	8.0			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3.0A$ $I_B=0.6A$			2.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=3.0A$ $I_B=0.6A$			1.5	V
Collector output capacitance	C_{OB}	$V_{CB}=10V$ $f=1MHz$		80		pF
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=0.6A$		18		MHz
Storage Time	t_S	$V_{CC}=5V$ $I_C=0.5A$ (UI9600)	3.0		8.0	s
Fall Time	t_F				0.8	s







Note:

BR: Company Code.

D1710: Product Type.

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



Note:

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

270 5 10 1 sec. Temp.:270±5 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-220/F	200	10	2,000	5	10,000	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-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180