

/ Absolute Maximum Ratings(Ta=25)

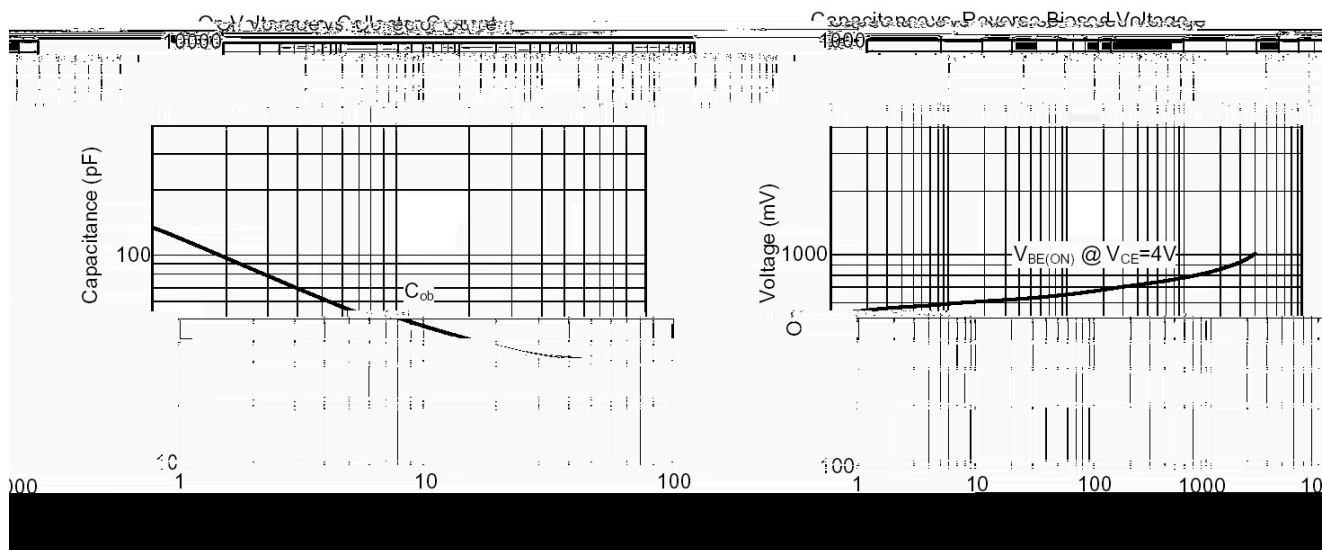
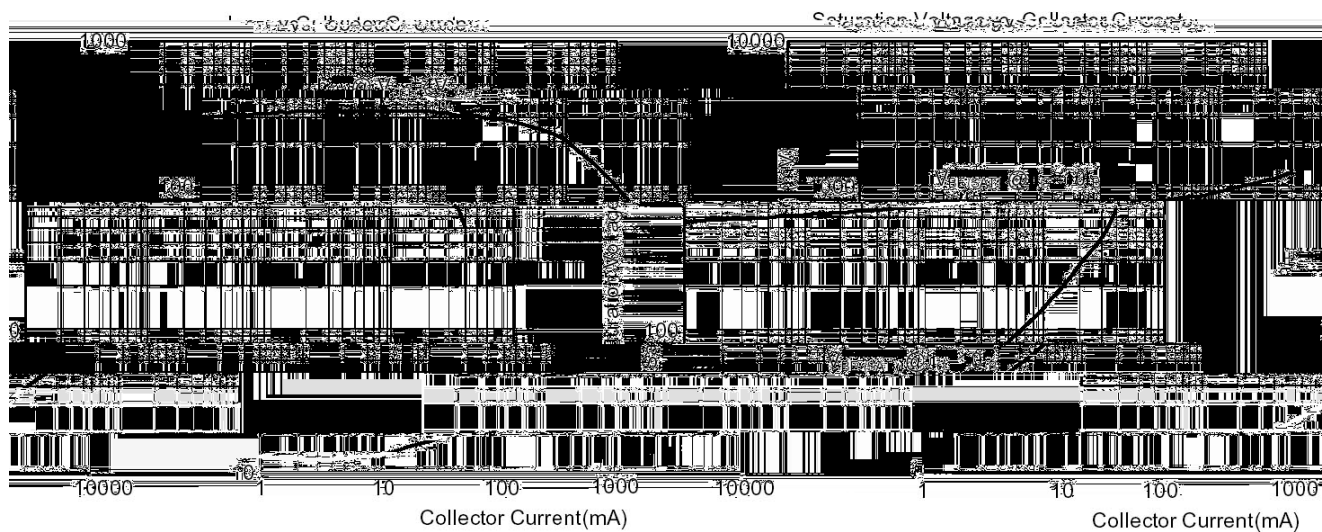
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-70	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-4.0	A
Base Current - Continuous	I_{CP}	-8.0	A
Collector Power Dissipation	$P_C(T_C=25^{\circ}C)$	40	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 150	$^{\circ}C$

/ Electrical Characteristics(Ta=25)

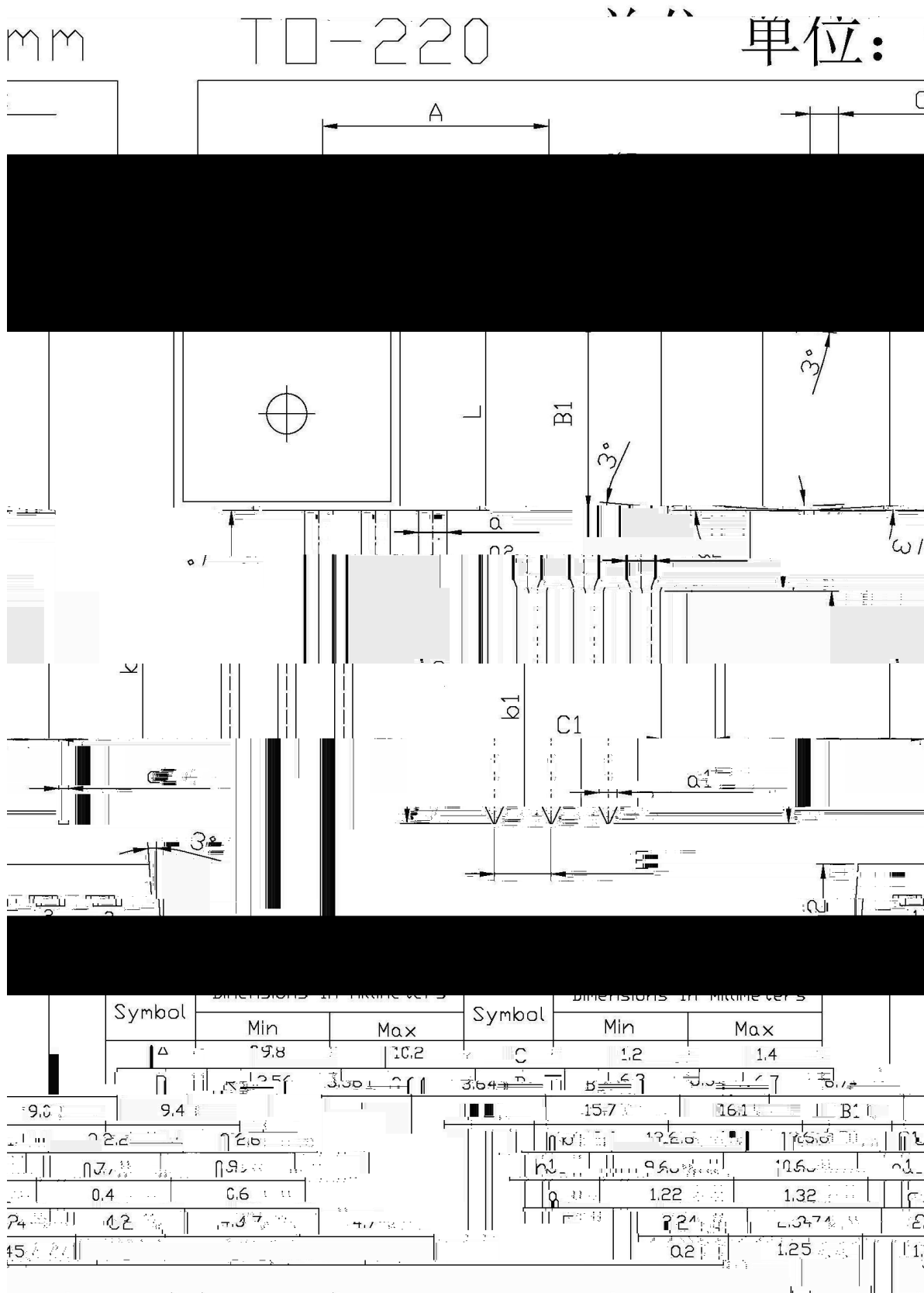
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-10\mu A$ $I_E=0$	-70			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-50mA$ $I_B=0$	-50			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\mu A$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-50V$ $I_E=0$			-1.0	μA
DC Current Gain	$h_{FE(1)*}$	$V_{CE}=-4.0V$ $I_C=-1.0A^*$	60		320	
	$h_{FE(2)*}$	$V_{CE}=-4.0V$ $I_C=-0.1A^*$	35			
Collector to Emitter Saturation Voltage*	$V_{CE(sat)*}$	$I_C=-2.0A$ $I_B=-0.2A^*$			-1.0	V
Base to Emitter Voltage*	V_{BE*}	$V_{CE}=-4.0V$ $I_C=-1.0A^*$			-1.0	V
Transition Frequency*	f_T^*	$V_{CE}=-4.0V$ $I_C=-0.5A^*$		15		MHz

* /Pulse test.

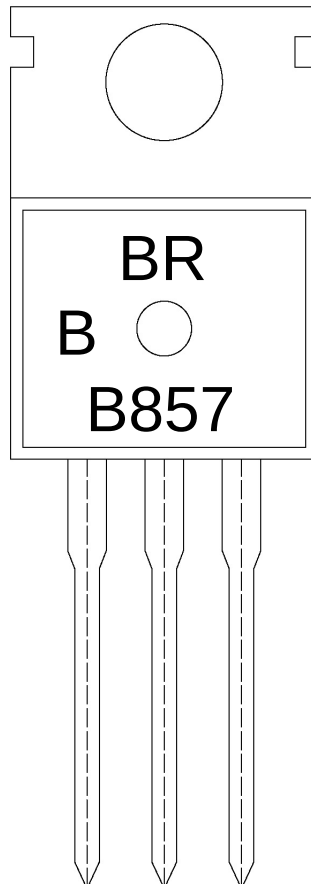
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

B857

B: h_{FE}

Note:

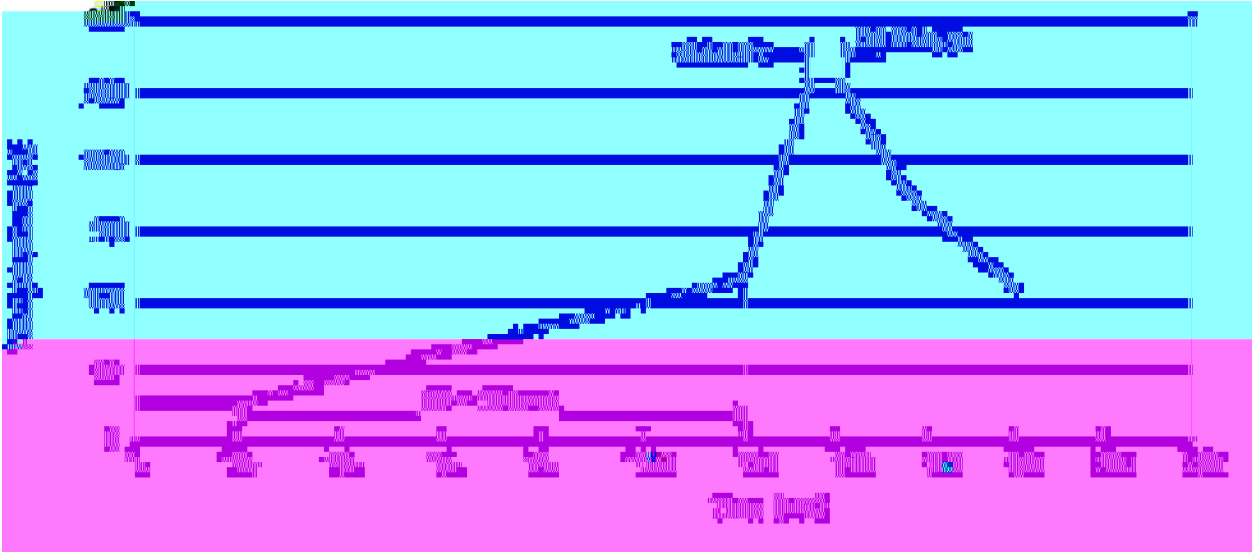
BR: Company Code

B857: Product Type.

B: h_{FE} Classifications Symbol

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

() / Temperature Profile for Dip Soldering(Pb-Free)



- Note:

1. Preheating: 25~150 , Time: 60~90sec.

2. Peak Temp.: 255±5 , Duration: 5±0.5sec.

3. Cooling Speed: 2~10 /sec.
- | | | | | |
|---|-------|-----|-----------|--------|
| 1 | 25 | 150 | 60 | 90sec; |
| 2 | 255±5 | | 5±0.5sec; | |
| 3 | | 2 | 10 | /sec. |

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.: 270±5℃ Time: 10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units 包装数量		Dimension 包装尺寸 (unit: mm ³)
封装形式	只 袋	袋 盒	只 盒