

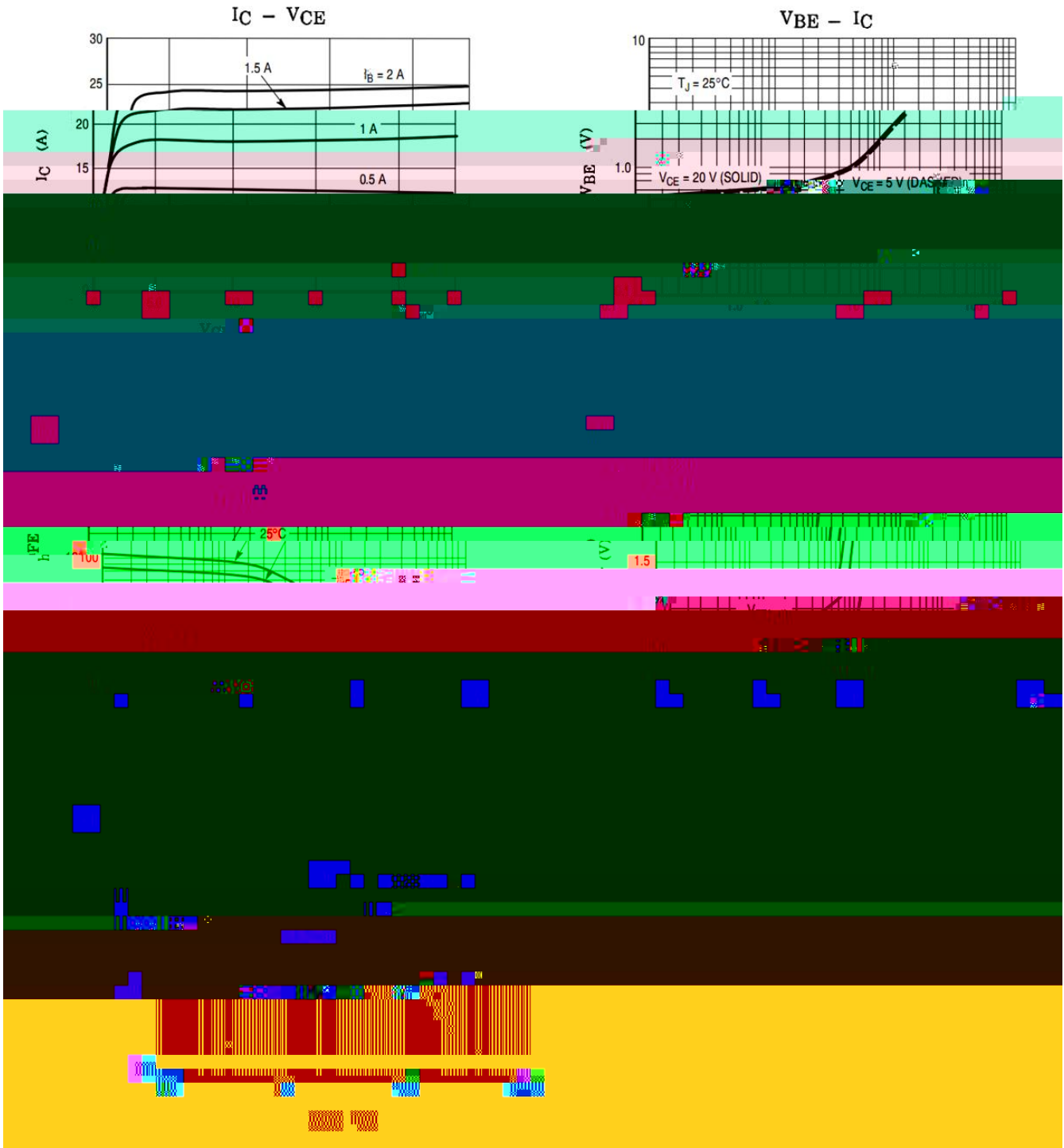
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-400	V
Collector to Emitter Voltage	V_{CEO}	-250	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-16	A
Peak Collector Current	I_{CP}	-30	A
Base Current	I_B	-5.0	A
Collector Power Dissipation	$P_C(TC=25)$	200	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

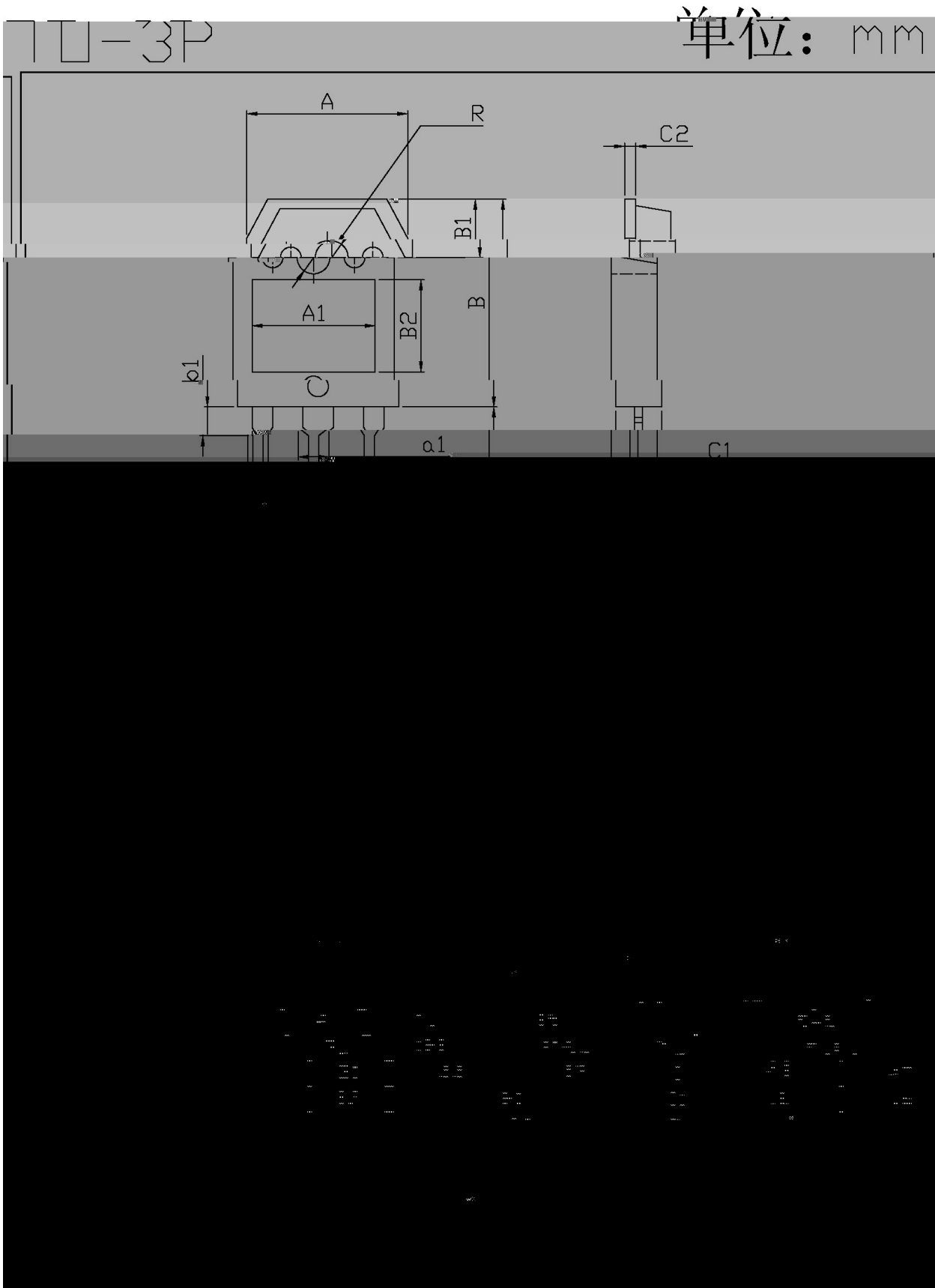
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-100mA$ $I_B=0$	-250			V
Collector Cut-Off Current	I_{CEO}	$V_{CE}=-200V$ $I_E=0$			-100	A
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-250V$ $I_E=0$			-100	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-100	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-5.0V$ $I_C=-8.0A$	10		80	
	$h_{FE(2)}$	$V_{CE}=-5.0V$ $I_C=-16A$	8			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-8.0A$ $I_B=-0.8A$			-4	V
	$V_{CE(sat)(2)}$	$I_C=-16A$ $I_B=-3.2A$			-6	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-5.0V$ $I_C=-8.0A$			-2.2	V
Transition Frequency	f_T	$V_{CE}=-10V$ $I_C=-1A$ $f=1.0MHz$	4			MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$			500	pF

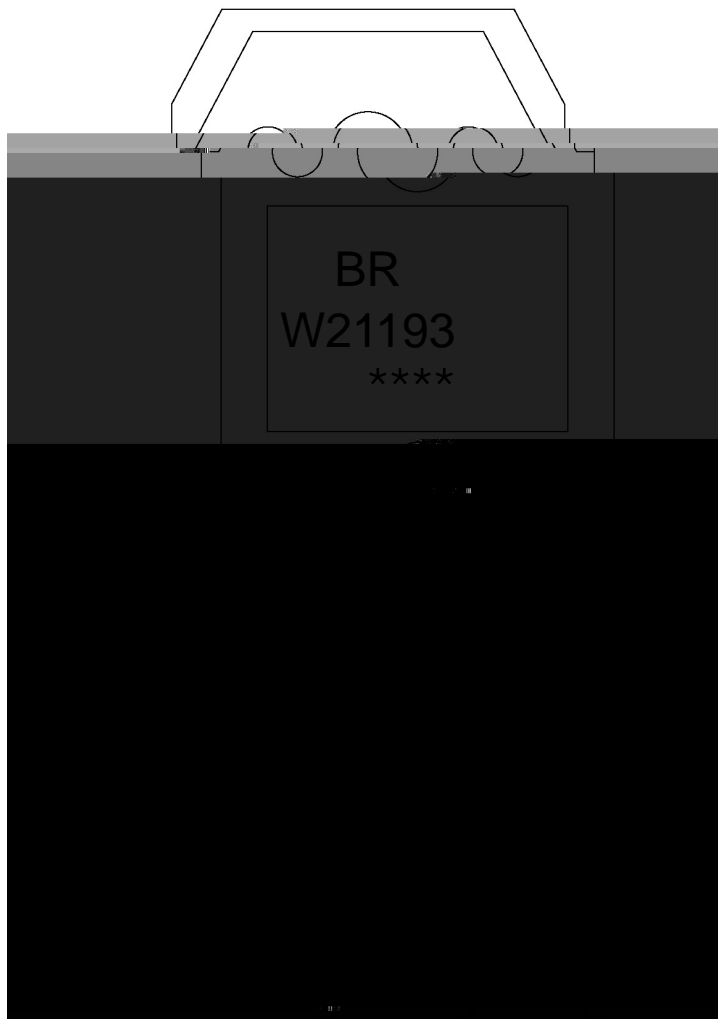
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR:

W21193

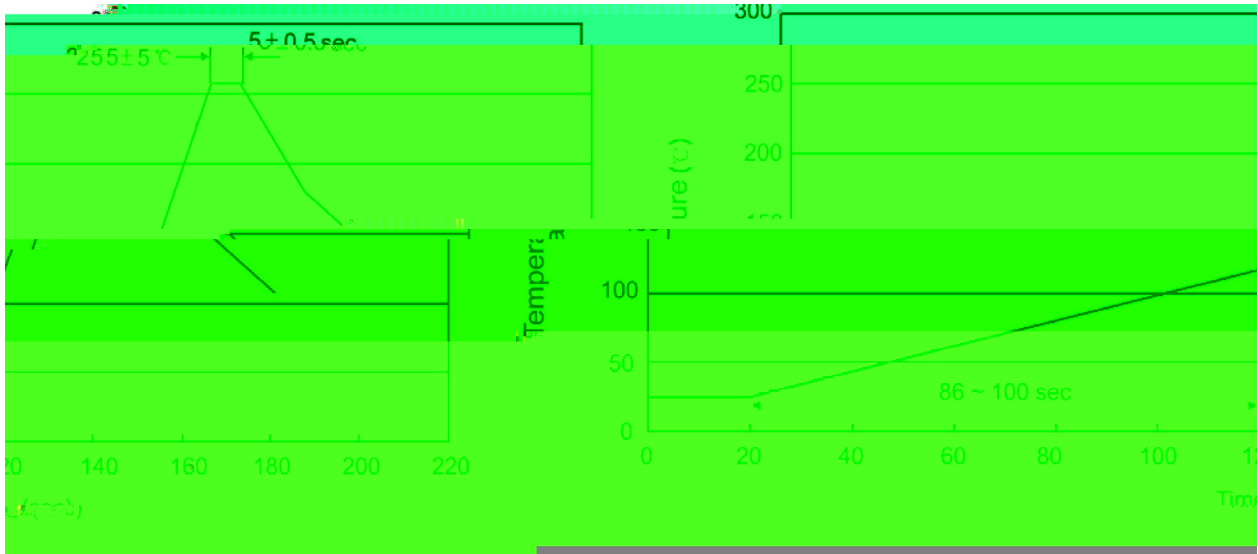
Note:

BR: Company Code.

W21193: Product Type.

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

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



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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ TUBE

Package Type	Units	Dimension	(unit mm ³)	Volume	Weight
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