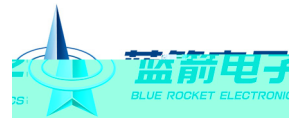


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DATA SHEET

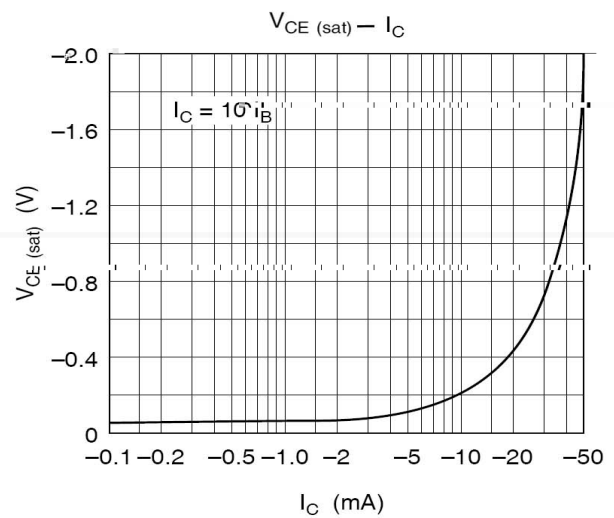
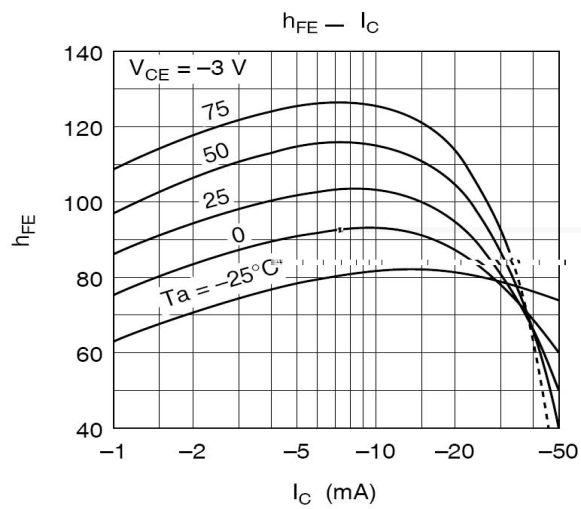
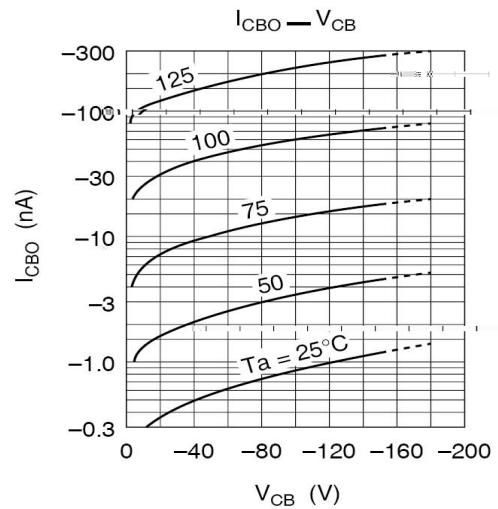
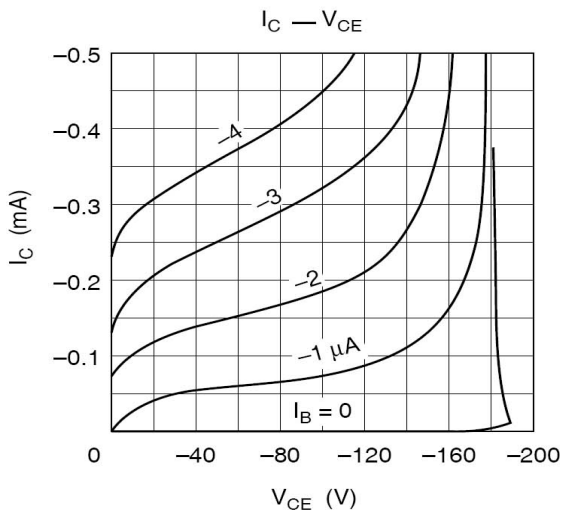
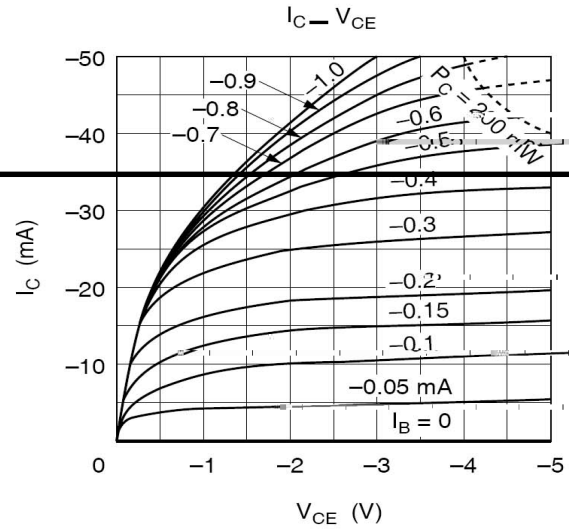
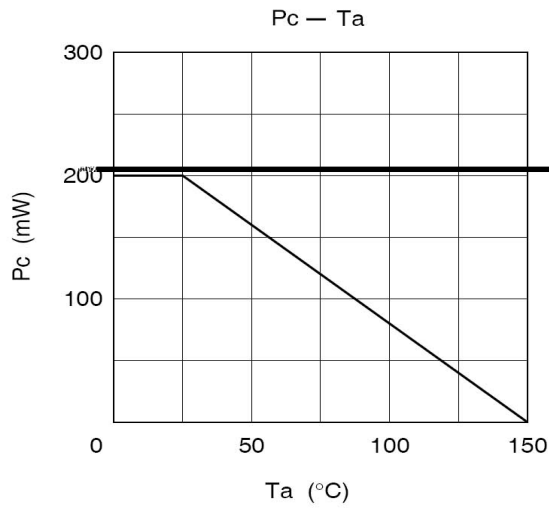
Parameter	Symbol		Rating	Unit
Collector to Base Voltage	V_{CBO}	2SA778	-150	V
		2SA778A	-180	
Collector to Emitter Voltage	V_{CEO}	2SA778	-150	V
		2SA778A	-180	
Emitter to Base Voltage	V_{EBO}		-5.0	V
Collector Current - Continuous	I_C		-50	mA
Collector Power Dissipation	P_C		200	mW
Junction Temperature	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}	2SA778	$I_C = -50\text{ A}$ $I_E = 0$	-150			V
		2SA778A		-180			
Collector to Emitter Breakdown Voltage	V_{CBO}	2SA778	$I_C = -50\text{ A}$ $I_E = 0$	-150			V
		2SA778A		-180			
Collector Cut-Off Current	I_{CBO}	2SA778	$V_{CB} = -100\text{V}$ $I_E = 0$			-0.1	A
		2SA778A	$V_{CB} = -150\text{V}$ $I_E = 0$				
Emitter Cut-Off Current	I_{EBO}		$V_{EB} = -5.0\text{V}$ $I_C = 0$			-1.0	A

DC Current Gain

$h_{(1)} T_J 7.02 \text{ } 0 \text{ } 0 \text{ } 7.02 \text{ } 354.66 \text{ } 307.9403 \text{ } T_m 0 \text{ } T_c 0 \text{ } T_w(C) T_j 10.5 \text{ } 0 \text{ } 0 \text{ } 10.5 \text{ } 359.73.$

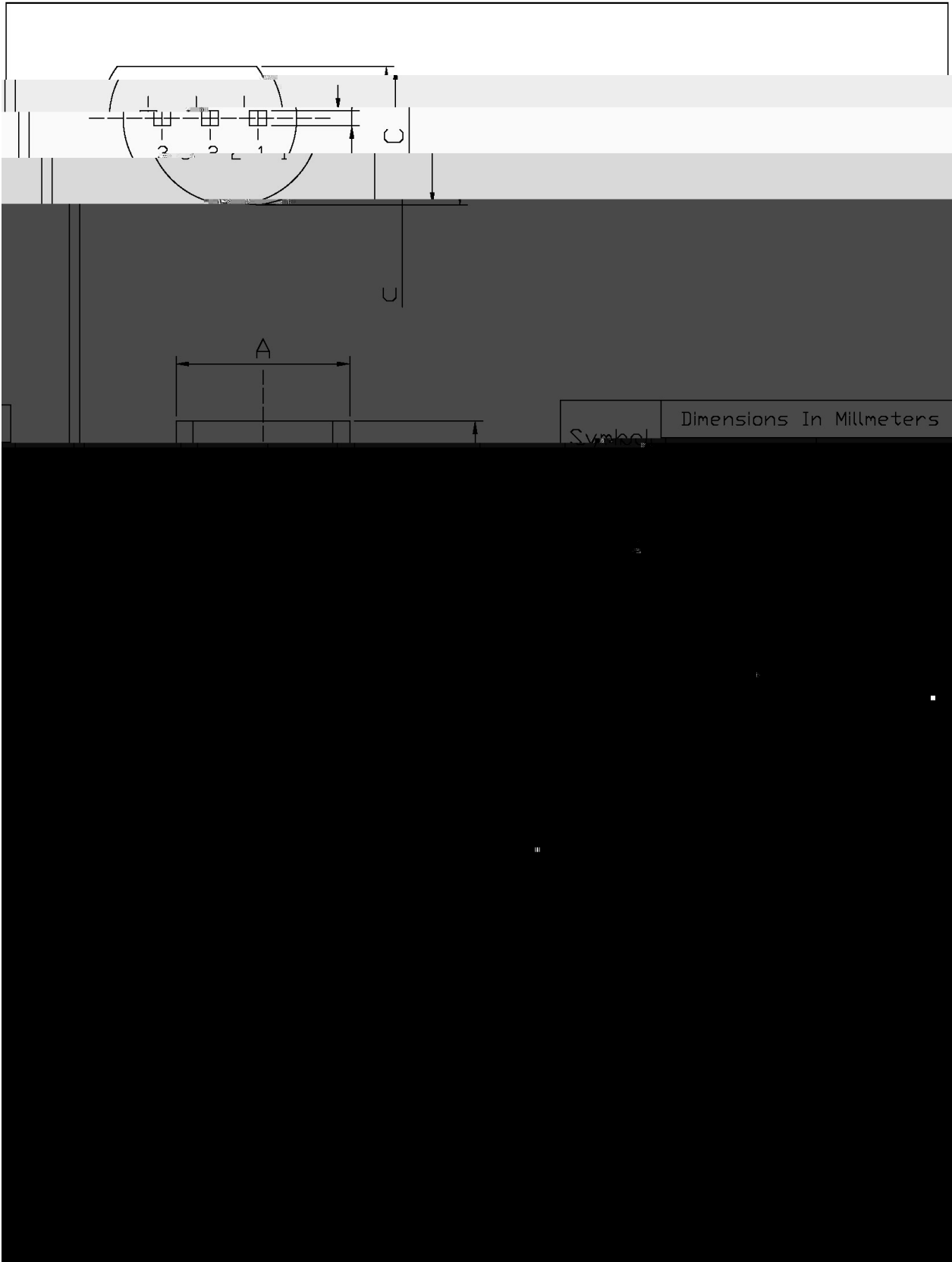
/ Electrical Characteristic Curve



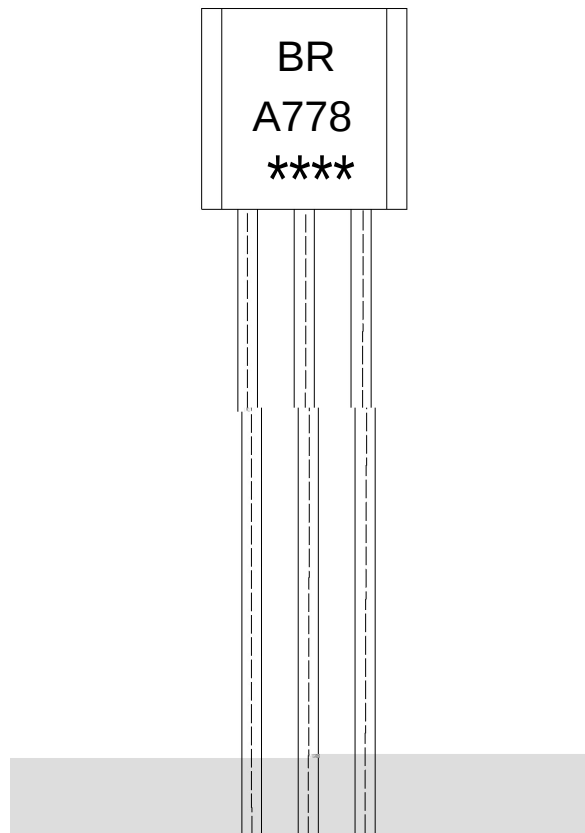
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

A778

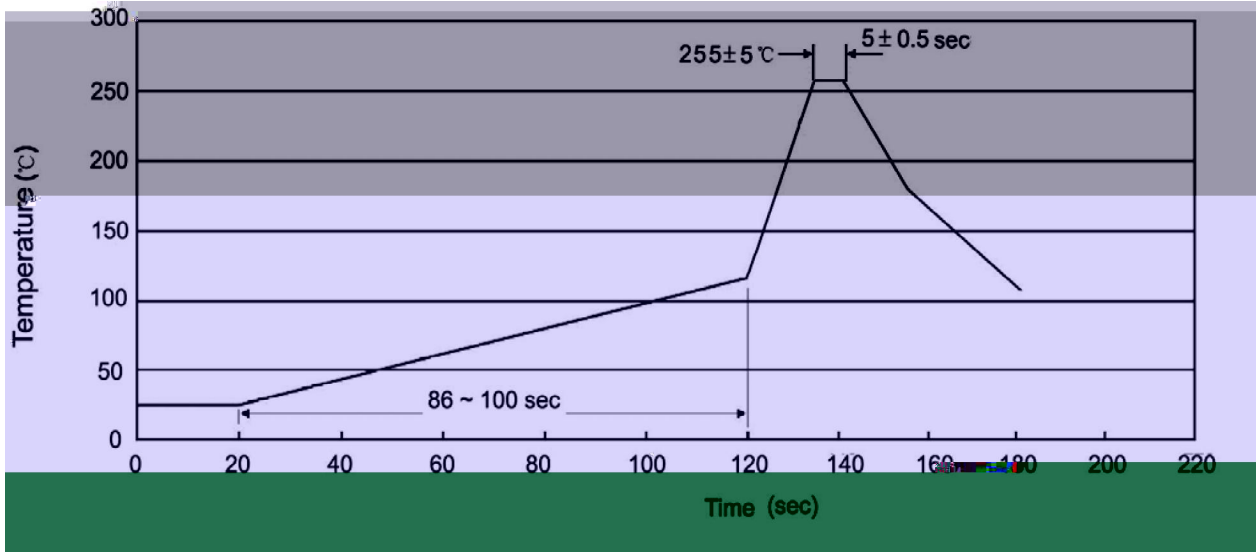
Note:

BR: Company Code.

A778: 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.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	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-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268

/ Notices