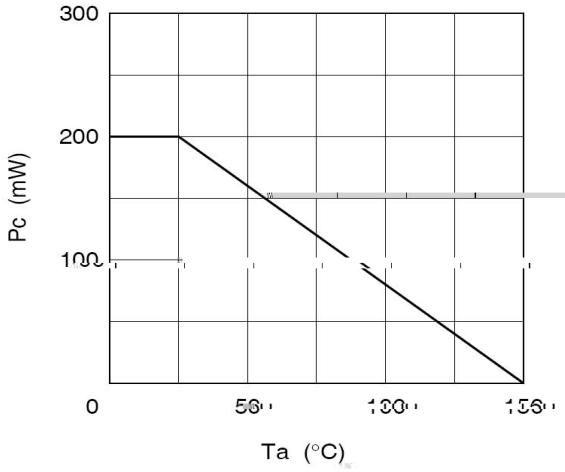
v ̈Ọ Parameter	ϒ N Symbol		̈Ọ Ö Rating	D Ꮋ Unit
Collector to Base Voltage	V_{CBO}	2SA778	-150	V
		2SA778A	-180	
Collector to Emitter Voltage	V_{CEO}	2SA778	-150	V
		2SA778A	-180	
Emitter to Base Voltage	V_{EBO}		-5.0	V
Collector Current - Continuous	I_C		-50	mA
Collector Power Dissipation	P_C		200	mW
Junction Temperature	T_j		150	
Storage Temperature Range	T_{stg}		-55 150	

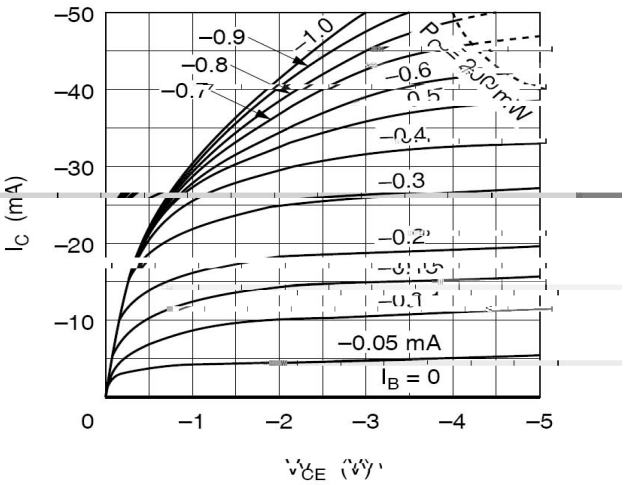
v ̈Ọ Parameter	ϒ N Symbol	ᏻ ː ᛏ Test Conditions	ᾠ ṇ Ö Min	Ɛ ʒ Ö Typ	ᾠ ᶻ Ö Max	D Ꮋ Unit

/ Electrical Characteristic Curve

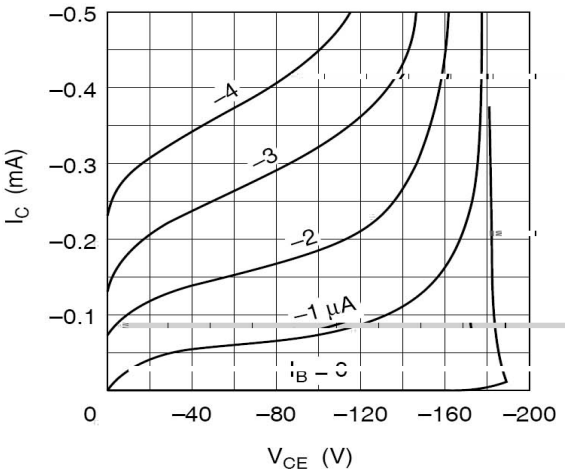
Pc — Ta



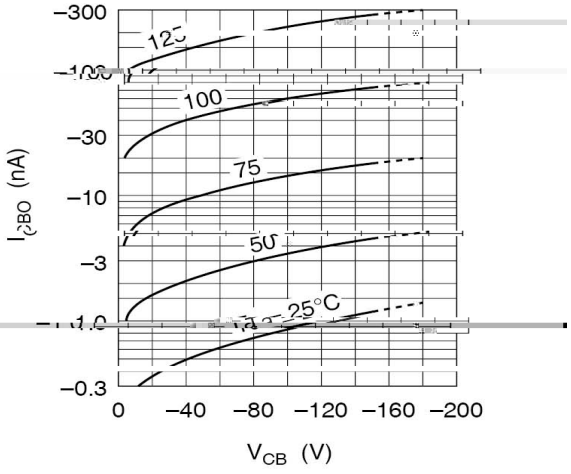
I_C — V_{CE}



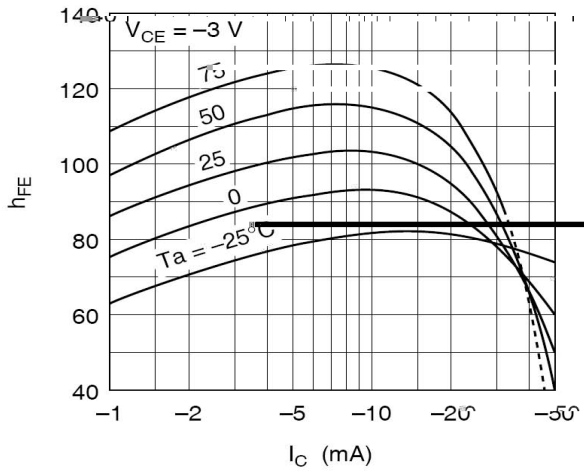
I_C — V_{CE}



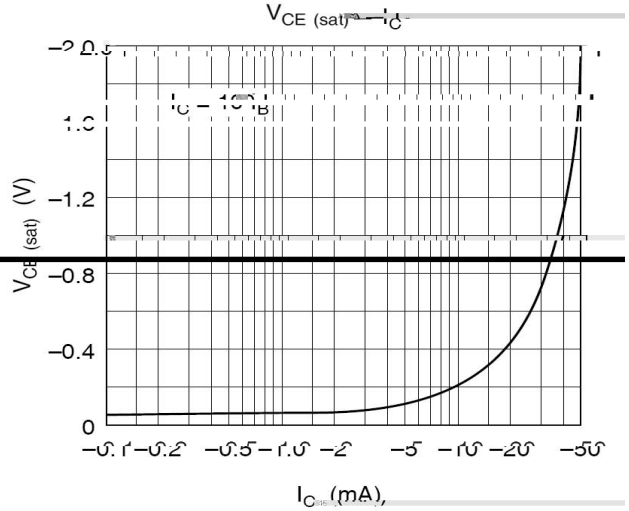
I_{CBO} — V_{CB}



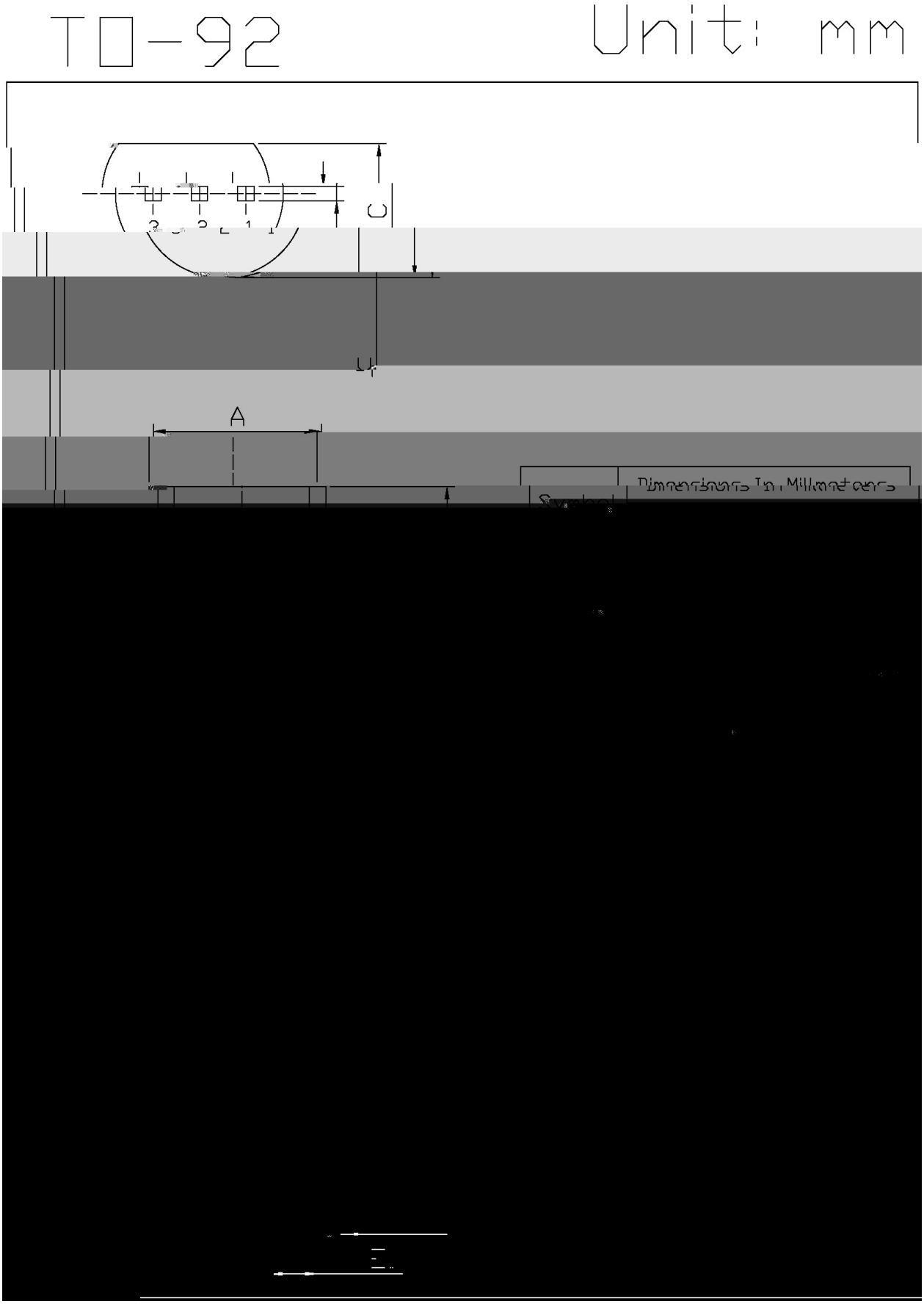
h_{FE} — I_C



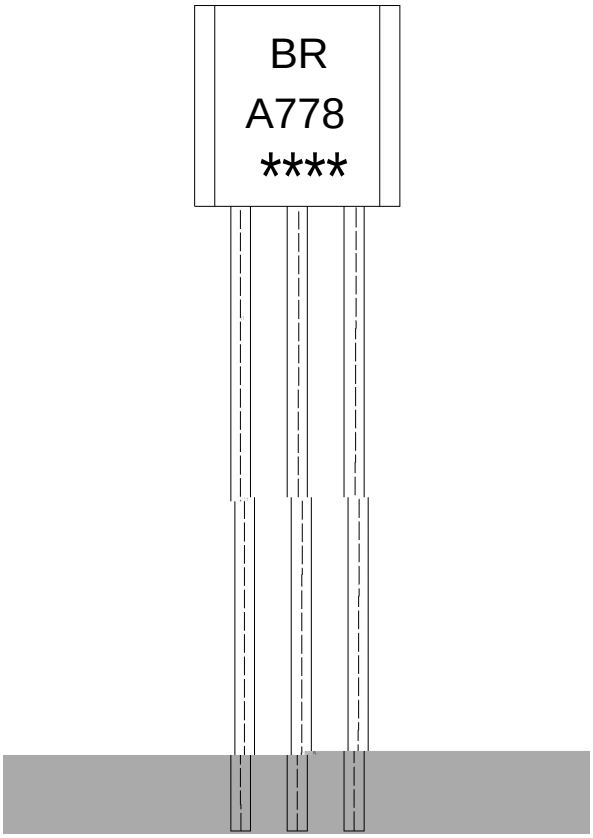
$V_{CE\ (sat)}$ — I_C



/ Package Dimensions



/ Marking Instructions

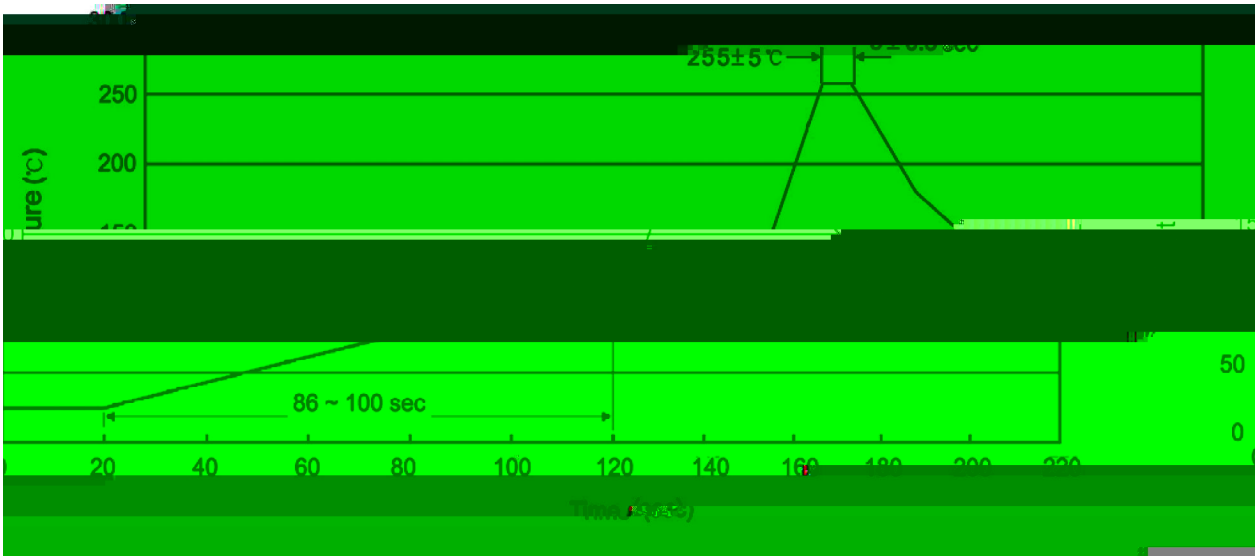


ب ˝ χ	
EU=	ﻫ ३ ᴎ Γ ђ
D : : ; χ	ﻫ ȝ ᴺ Γ ђ
---- χ	ﻫ ı ғ ӈ̃ ᴺ Γ ђ ı ɕ ı ғ ӈ̃ ᴺ Ψ ק

Note:

BR:	Company Code.
D : : ; :	Product Type.
****:	Lot No. Code,code change with Lot No.

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



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ł ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 255 ° 5 ł ı ˋH ڑ ˋY ﾉ ㎞ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ɔ ଌ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

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

2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ł ˋH ڑ χ 10 ° 1 sec. Temp:270±5 Time:10±1 sec

/ Packaging SPEC.

ˈQ ţ ﾘ Ł / BULK

Package Type	Units					Dimension		(unit mm3)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
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

ﾉ V ﾘ Ł / AMMO

Package Type	Units					Dimension	(unit mm3)
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box	Outer Box
TO-92	3,000	1	120	10	30,000	328×230×42	480×346×235 547×407×268

/ Notices