/ Descriptions

WR0553I ṂṂ Ł SQS ÆṀ ч s ‖ ㄱ Silicon PNP transistor in a TO-220F Plastic Package.

/ Features

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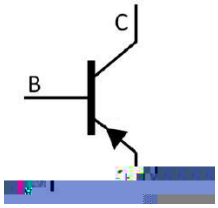
High V_{CEO}, large P_C.

/ Applications

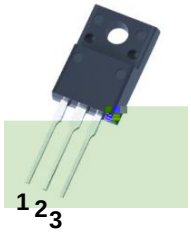
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Power amplifier, TV vertical deflection output.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

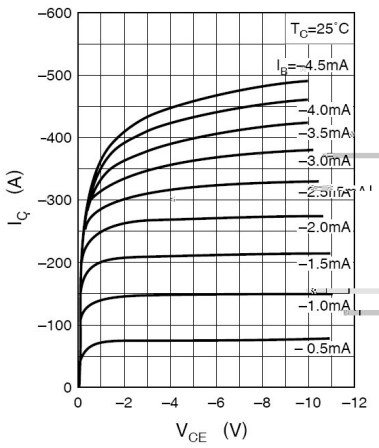
h_{FE} Classifications Symbol	Q	P
h_{FE} Range	60 140	100 240

v ̈Ω Parameter	ϒ N Symbol	̈Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	-200	V
Collector to Emitter Voltage	V_{CEO}	-150	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current - Continuous	I_C	-2.0	A
Collector Current – Continuous(Pulse)	I_{CP}	-3.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	P_C(Tc=25)	30	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

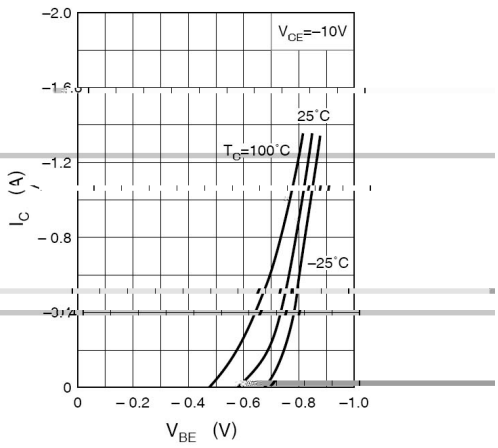
v ̈Ω Parameter	ϒ N Symbol	Ш :ϯ ϯ Test Conditions	ω ņ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-500μA I_E=0	-200			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-5.0mA I_B=0	-150			V
Emitter to Base Breakdown Voltage	V_{EBO}	I Ei0ÙÙ,T ĝkVFbo Ge Eq Ih IA Z Cp 3pFG SFV				

/ Electrical Characteristic Curve

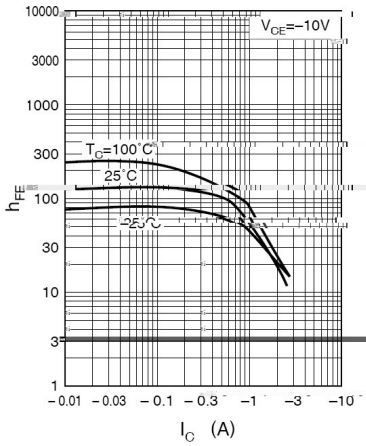
I_C — V_{CE}



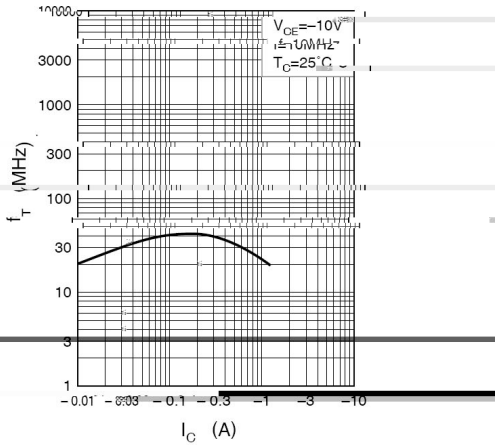
I_C — V_{BE}



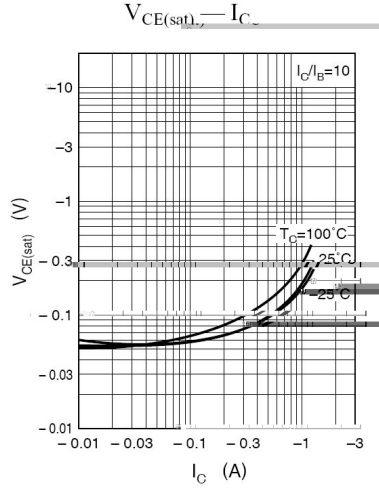
h_{FE} — I_C



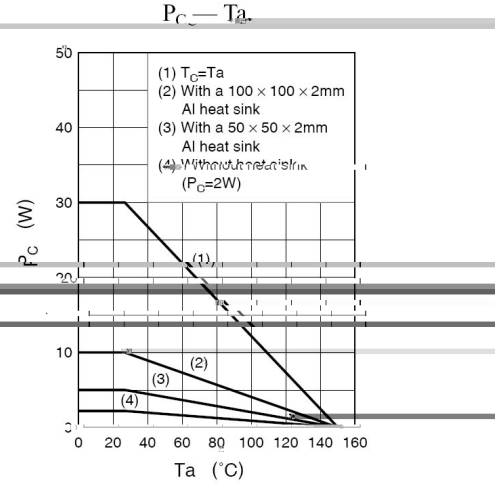
f_T — I_C



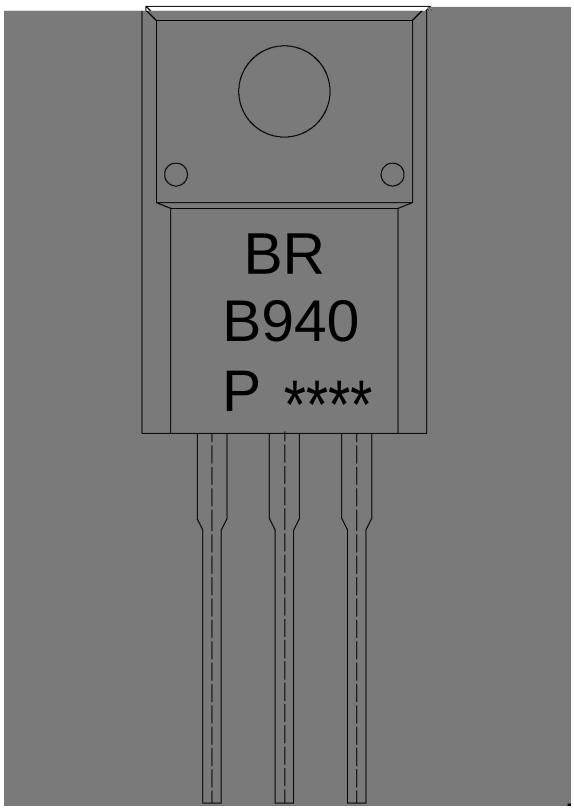
$V_{CE(sat)}$ — I_C



P_C — Ta



/ Marking Instructions

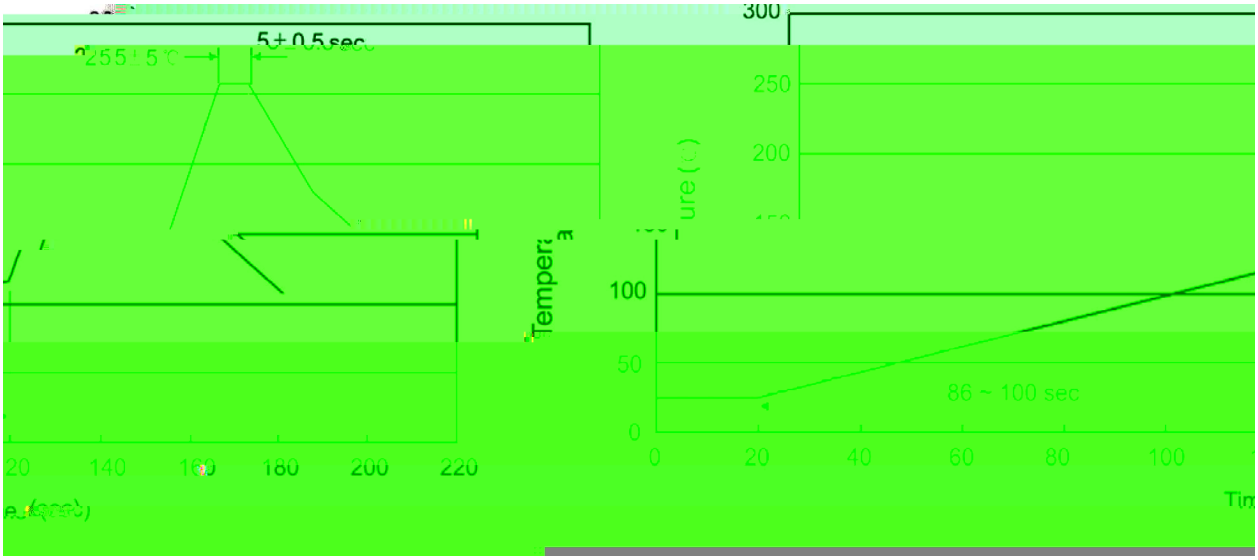


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EU χ	ѭ ϗ ᴎ Ꮁ
E<73 χ	ѭ ϳ ᴺ Ꮁ
S=	ѭ k ᴵᴴ ʻ ⁶ Ꮁ
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Note:

BR:	Company Code.
B940:	Product Type.
P:	h_{FE} Classifications Symbol
****:	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 ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ɔ ﻉ 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 ﾔ 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-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195