2SB1412

Rev.E May.-2016

DATA SHEET

/ Descriptions

WR0585 ĻĻ Ł SQS ÆṀ ч s ‖ ㄱ Silicon PNP transistor in a TO-252 Plastic Package.

/ Features

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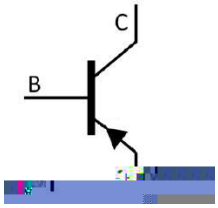
Low $V_{CE(sat)}$,excellent DC current gain characteristics, complements the 2SD2118.

/ Applications

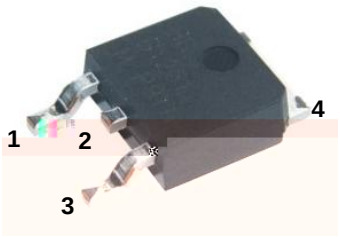
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Medium power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2,4 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

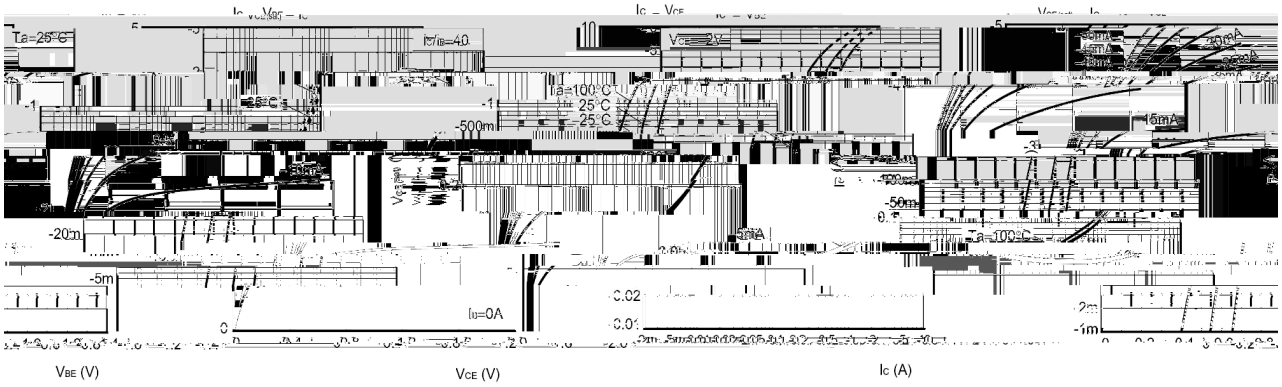
h_{FE} Classifications Symbol	P	Q	R
h_{FE} Range	82 180	120 270	180 390

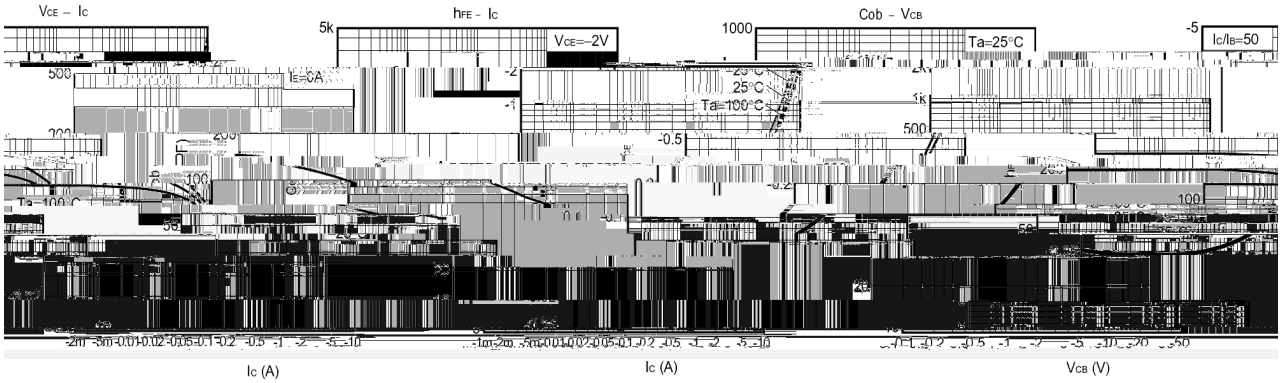
v ˝Ω Parameter	ϒ N Symbol	˝Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-20	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current - Continuous	I_C	-5	A
Peak Collector Current – Continuous	I_{CM}	-10	A
Collector Power Dissipation	P_C	1.0	W
Collector Power Dissipation*	*P_C(Tc=25)	10	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

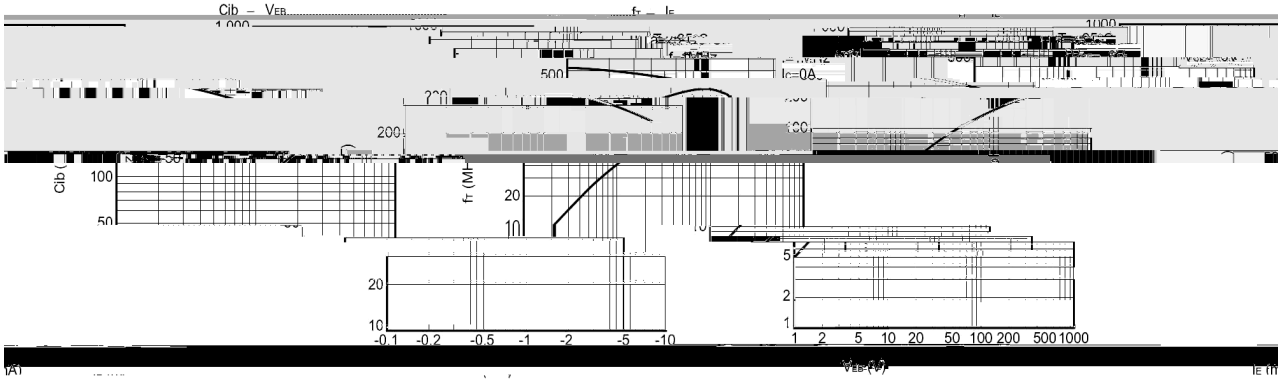
*mounted On40×40×0.7mm ceramic board.
-ˆ Ь 73Ö73Ö3: p p ⊞ — i

v ˝Ω Parameter	ϒ N Symbol	Ш :† ţ Test Conditions	ѡ ņ Ö Min	Ɛ ʒ Ö Typ	ѡ ᶻ Ö Max	D Ч Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-50μA I_E=0	-30			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-1.0mA I_B=0	-20			V

/ Electrical Characteristic Curve

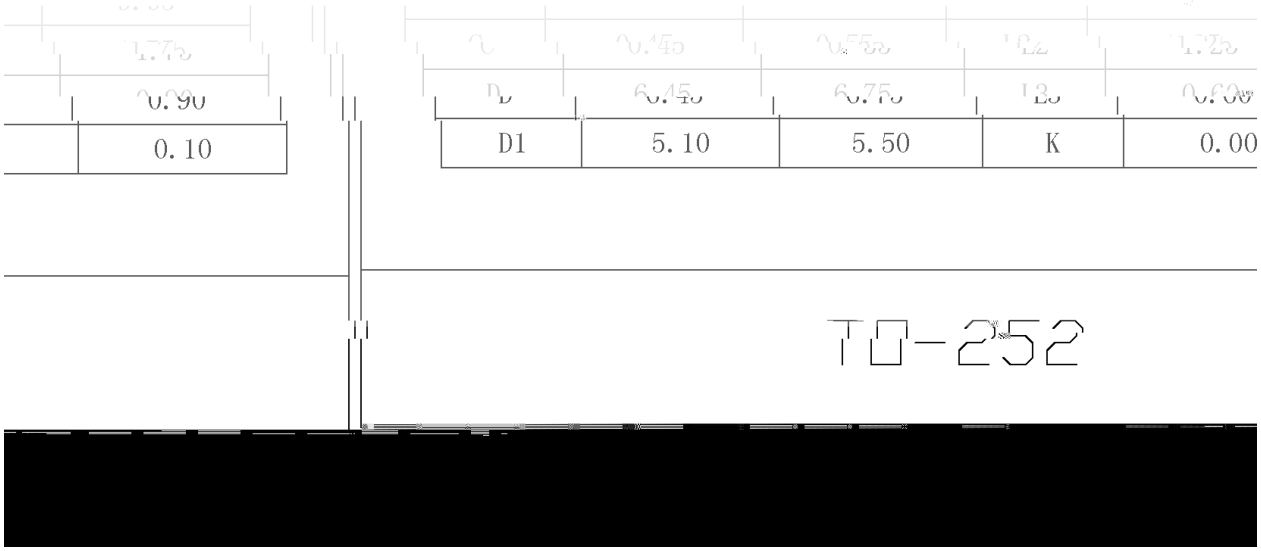




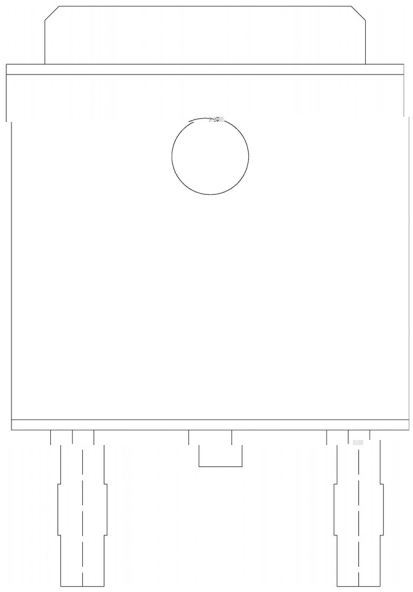


/ Package Dimensions





/ Marking Instructions

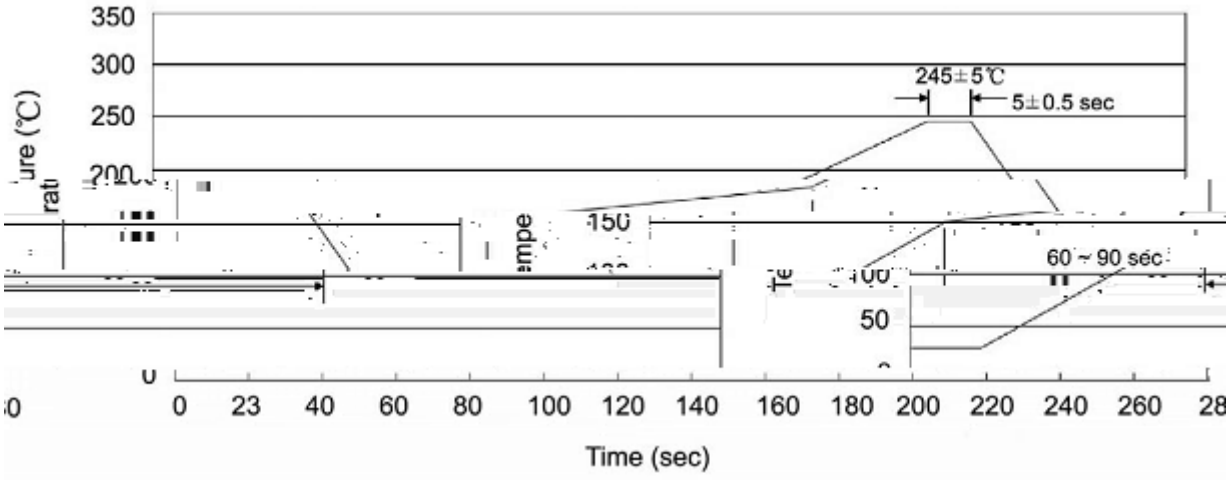


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E4745 χ	ѭ ϳ N Ґ
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Note:

BR: Company C (ȶdɣAAking 174D([P:4.32737ƿD0 Tc041e04b80556)Tj0941Ŧj/TTD(T4

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



ب ˝ χ

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

2 Š Ë □ ỷ 245 ° 5 ł ı `H ڑ ˙Y ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ｲ ˛ ɔ ﻉ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

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

2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ł `H ڑ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

ɔ ` ｙ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	5	25,000	13 ×16		