2SB1182

Rev.E May.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

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

/ Features

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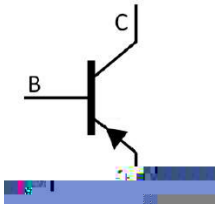
Low $V_{CE(sat)}$, complements the 2SD1758.

/ Applications

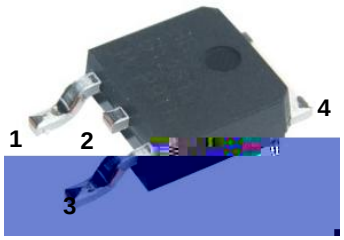
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Medium power amplifier applications.

/ 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

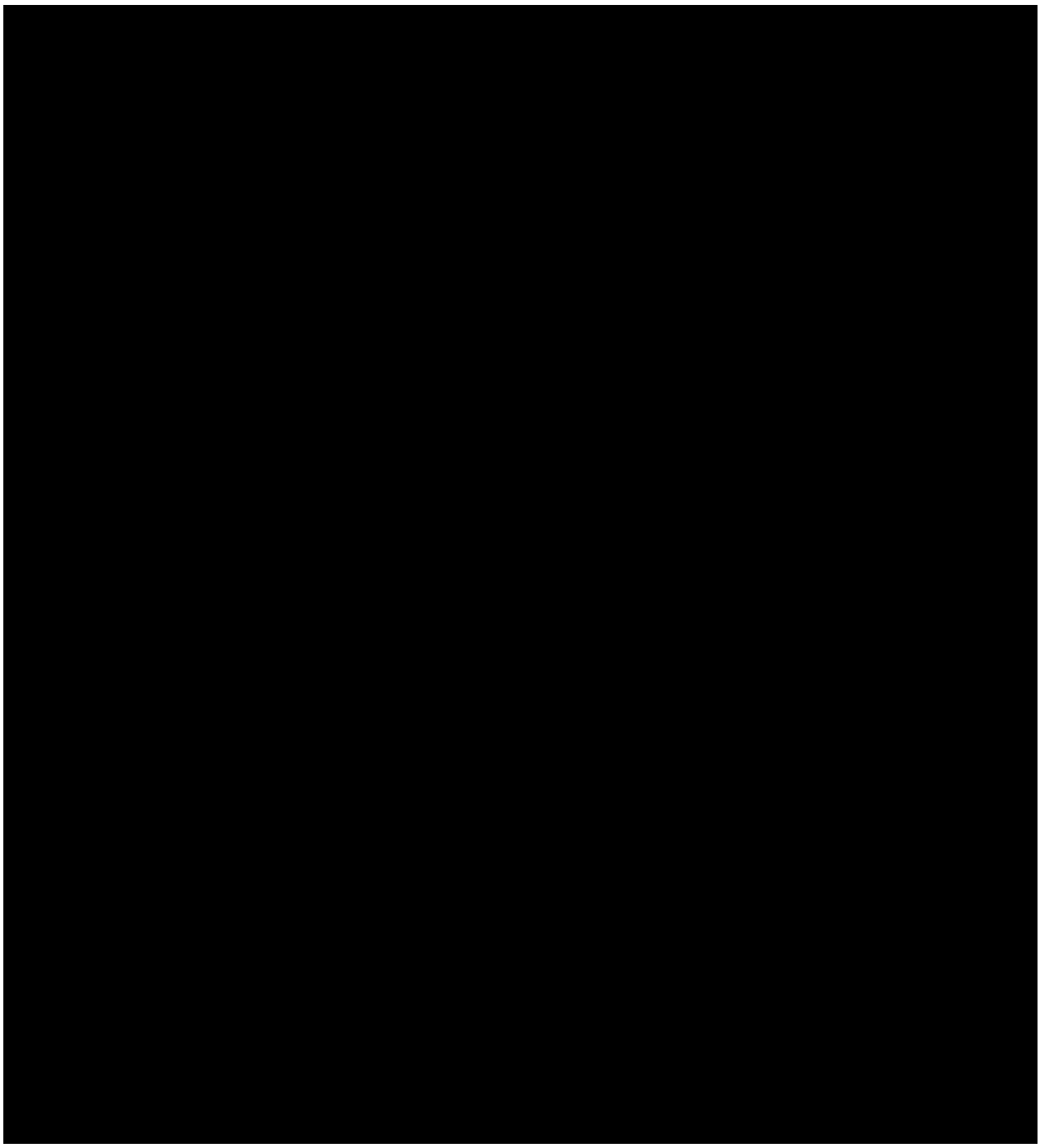
/ Absolute Maximum Ratings(Ta=25)

v ̈Ω Parameter	ϒ N Symbol	̈Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-32	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-2.0	A
Collector Current - Continuous	I_{CM}	-3.0	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	

/ Electrical Characteristics(Ta=25)

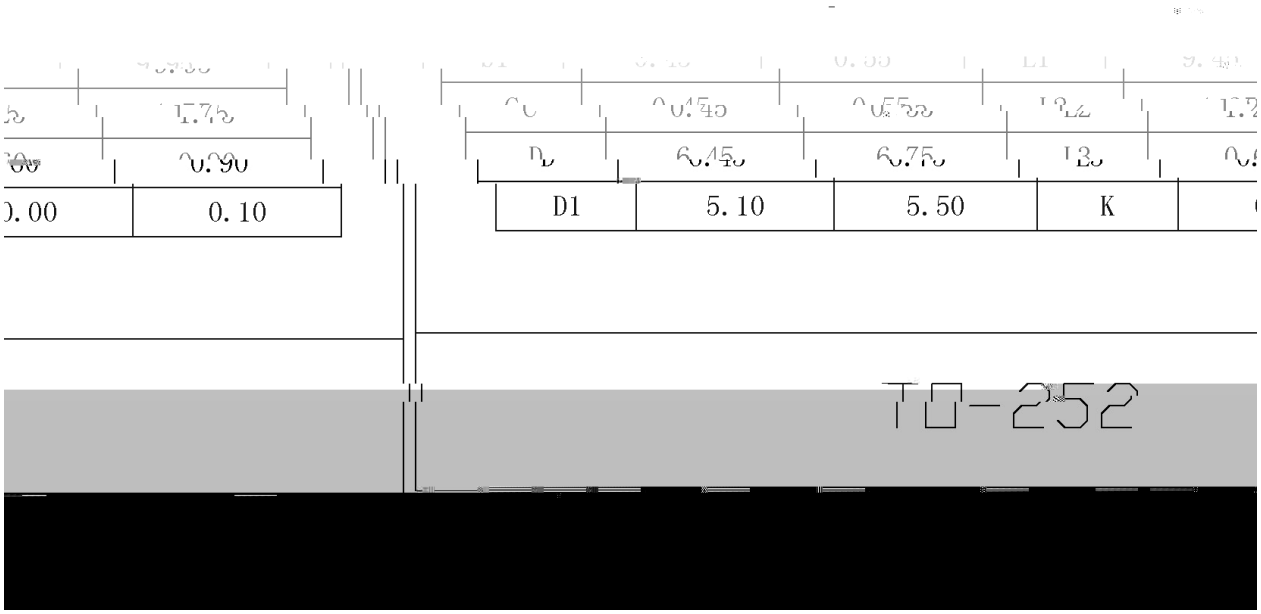
v ̈Ω Parameter	ϒ N Symbol	Ш :ϯ Ţ Test Conditions	ω ṇ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-50 A I_E=0	-40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-1.0mA I_B=0	-32			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-50 A I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-20V I_E=0			-1.0	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-4.0V I_C=0			-1.0	A
DC Current Gain	h_{FE}	V_{CE}=-3.0V I_C=-0.5A	82		390	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-2.0A I_B=-0.2A		-0.5	-0.8	V
Transition Frequency	f_T	V_{CE}=-5.0V I_C=-0.5A f=30MHz		100		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V I_E=0 f=1.0MHz		50		pF

/ Electrical Characteristic Curve

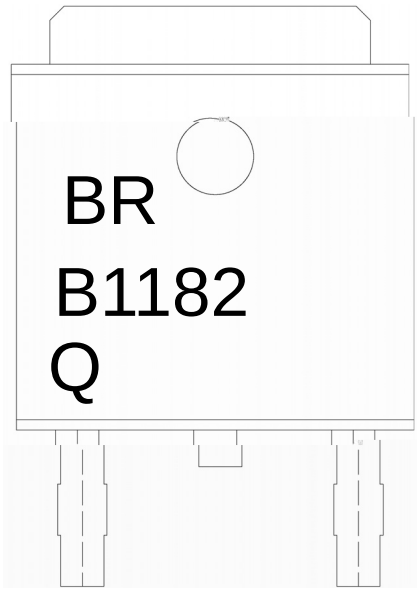


/ Package Dimensions



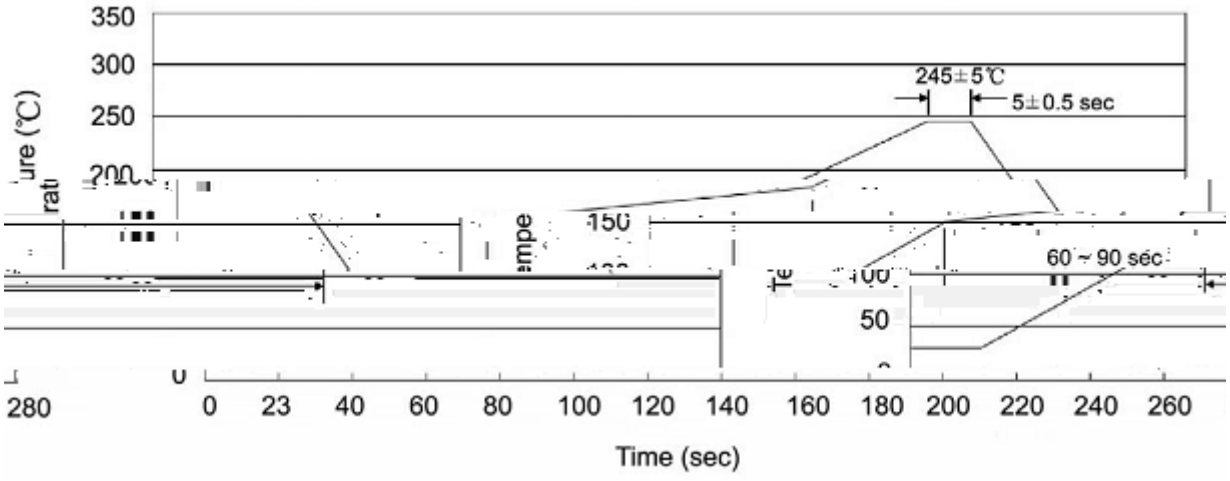


/ Marking Instructions



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BR χ	ѭ ϗ и Ђ
E44 ; 5 χ	ѭ ϳ N Ђ
T=	ѭ k IH ‘ 6 Ђ
---- χ	ѭ ı ғ ѝ N Ђ ı ₡ ı ғ ѝ N Ψ ק
Note:	
BR:	Company Code
B1182:	Product Type.
Q:	h_{FE} Classifications Symbol
****:	Lot No. Code, code change with Lot No.

( ) /



ب ˝ χ

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

2 Š Ө □ ỷ 245 ° 5 ł ı ˋH ڑ ˋY ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ɔ ෯ 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 ˋH ڑ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

ɔ ` ﾔ Ł / REEL

Package Type	Units	Dimension	(unit mm^3)