2SD1899L

Rev.E Mar.-2016

蓝箭电子
BLUE ROCKET ELECTRONICS
DATA SHEET

/ Descriptions

WR0459Ｉ ṂṂĿ QSQ ӕṀկ s Ⅱ ㄱ Silicon NPN transistor in a TO-126F Plastic Package.

/ Features

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Low $V_{CE(sat)}$, high current and high f_T, excellent linearity of h_{FE}, fast switching time.

/ Applications

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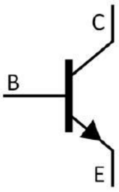
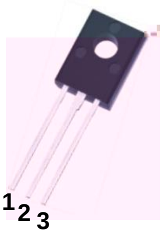
Relay drivers, high-speed inverters, general high-current switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Emitter PIN 2 χ Collector PIN 3 χ Base

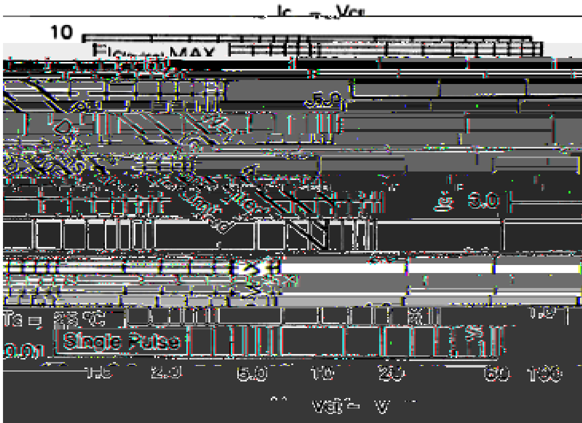
/ h_{FE} Classifications & Marking

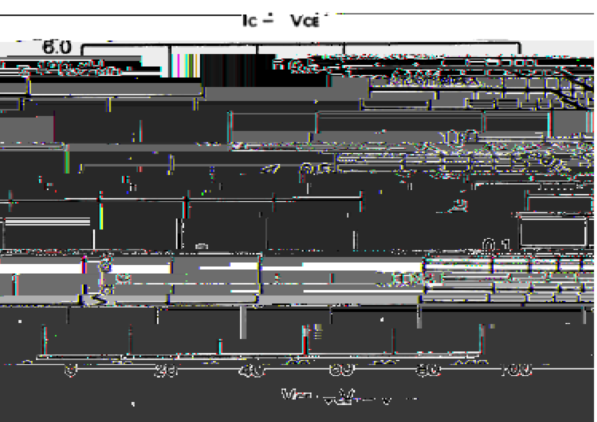
h_{FE} Classifications Symbol	M	L	K
h_{FE} Range	100 200	160 320	200 400

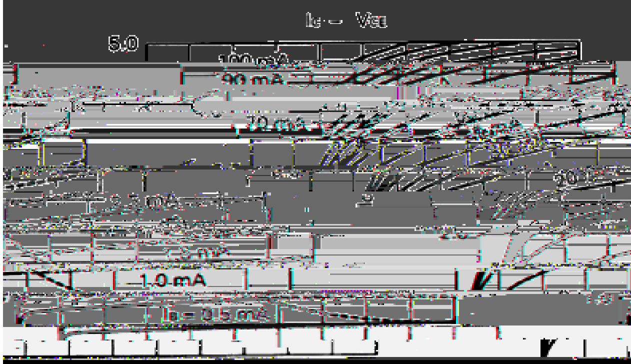
v ̋Ώ Parameter	ɬ ᴺ Symbol	̋ΏӪ Rating	ᴅ Ḫ Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	3.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	P_C(Tc=125)	10	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

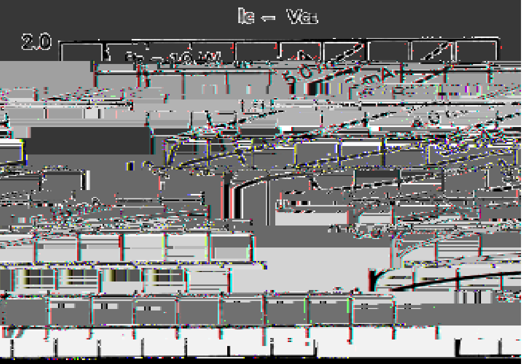
v ̋Ώ Parameter	ɬ ᴺ Symbol	╜ ׃ᶦ ţ Test Conditions	ѡ ṇ Ӫ Min	Ɛ ʒ Ӫ Typ	ѡ ᶻ Ӫ Max	ᴅ Ḫ Unit	Ά

/ Electrical Characteristic Curve



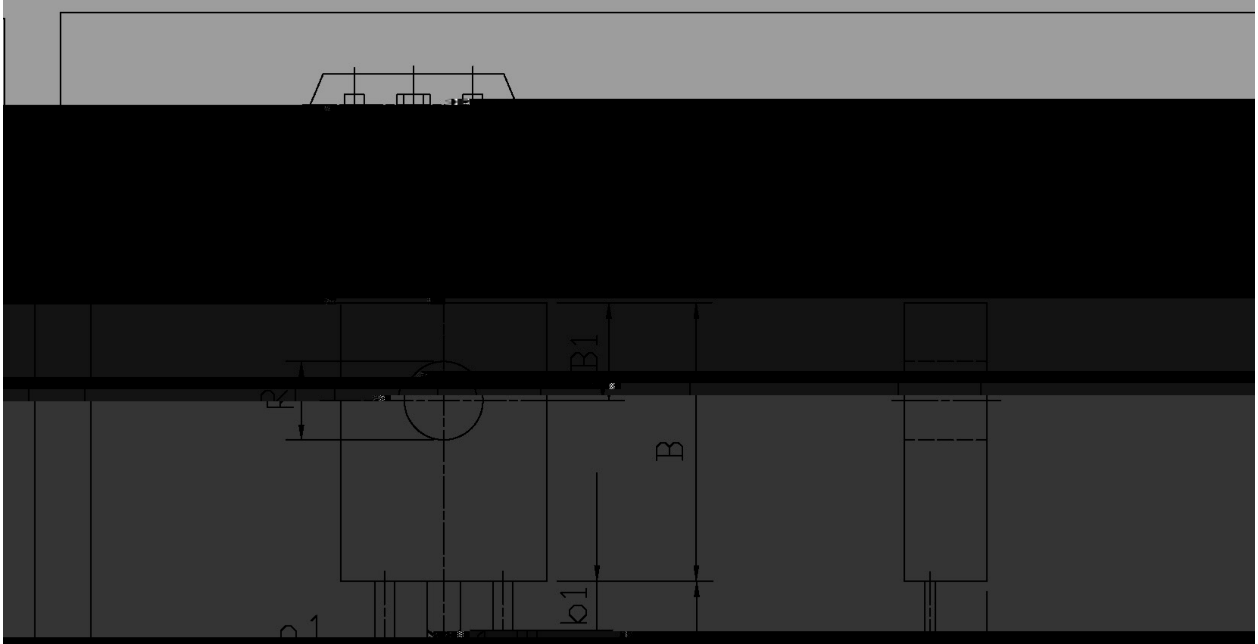






/ Package Dimensions

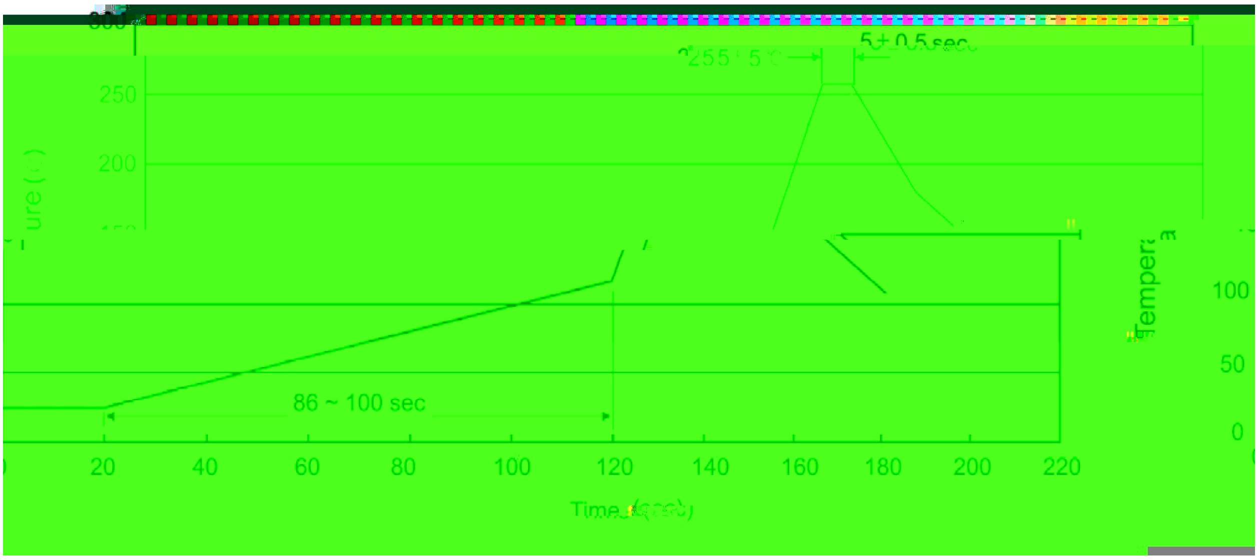
TO-126F　　　　单位：mm



Dimensions In Millimeters

Symbol	Min	Max	Symbol	Min	Max	Symbol	Min	Max
		0.86	A	7.8	8.2	e1	0.66	

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



ب ˝ χ
1　ȋ ♬ □ ŷ 25 Ḱ 150 ɫ ι `H ڗ 60 Ḱ 90sec;
2　Ś Ö □ ŷ 255 ° 5 ɫ ι `H ڗ `Y ⩘ ᵯ 5 ° 0.5sec;
3　ì ˙ Ⴁ ˓ ɔ ﻫ ŷ ᵯ 2 Ḱ 10 ɫ /sec.

Note:
1.Preheating:25~150 ɫ , Time:60~90sec.
2.Peak Temp.:255 ° 5 ɫ , Duration:5 ° 0.5sec.
3. Cooling Speed: 2~10 ɫ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ŷ χ 270 ° 5 ɫ　`H ڗ χ 10 ° 1 sec.

Temp.:270±5　Time:10±1 sec

/ Packaging SPEC.

῭Ω ʈ γ Ŀ / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	