2SD1899L

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

WR0459I ṂṂ Ł QSQ ÆṀ ч s ‖ 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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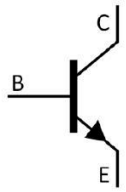
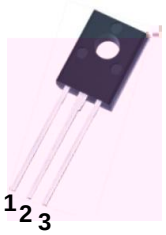
Relay drivers, high-speed inverters, general high-current switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Emitter PIN 2 χ Collector PIN 3 χ Base

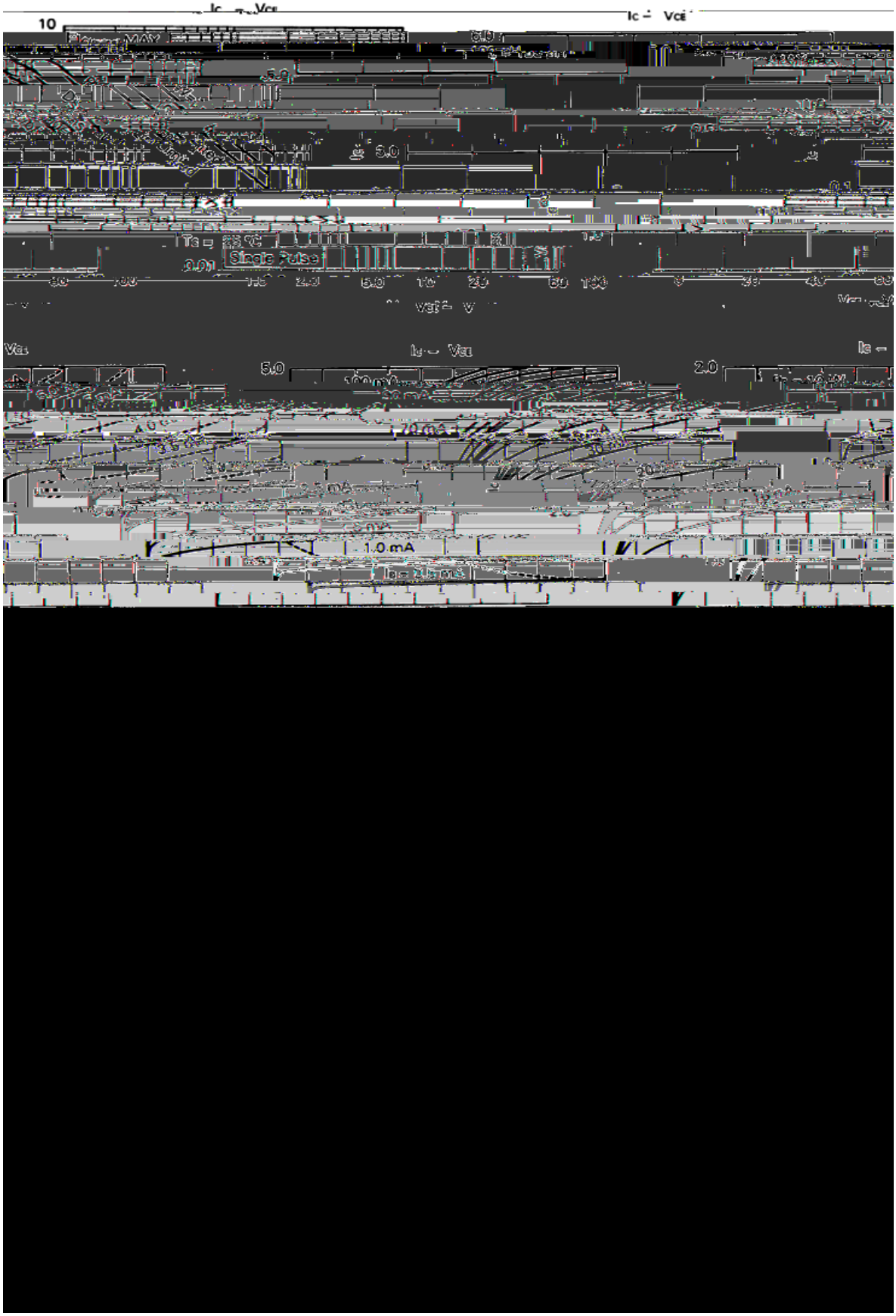
/ h_{FE} Classifications & Marking

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

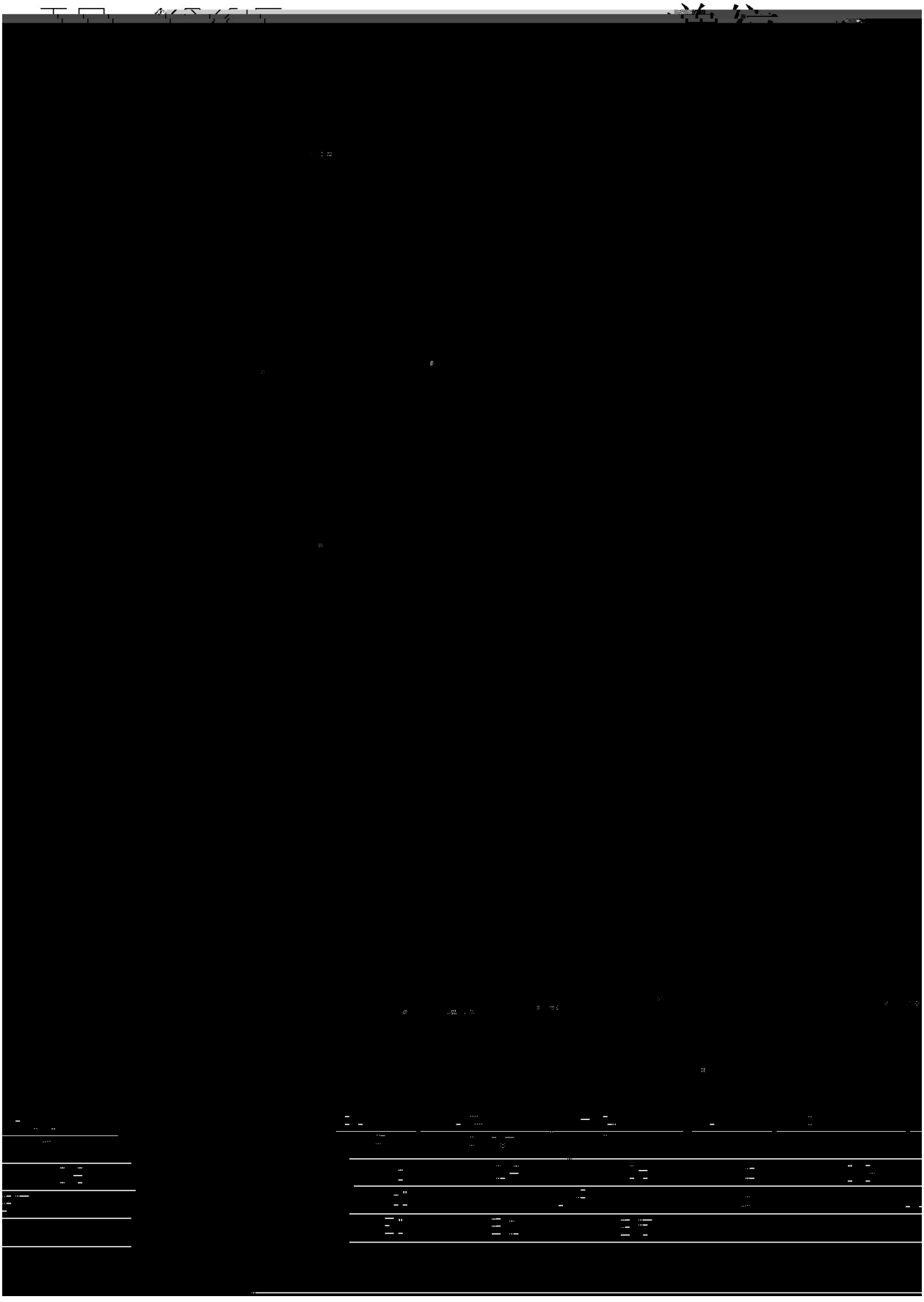
v ‴Ω Parameter	ϟ N Symbol	‴Ω Ö Rating	D Ꮒ Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	3.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	P_C(Tc=125)	10	W
Junction Temperature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

v ‴Ω Parameter	ϟ N Symbol	⊥ ⁝ ⁞ ϯ Test Conditions	ѡ ɳ Ö Ɛ ʒ Ö ѡ ᶻ Ö Min Typ Max	D Ꮒ Unit Ⱥ

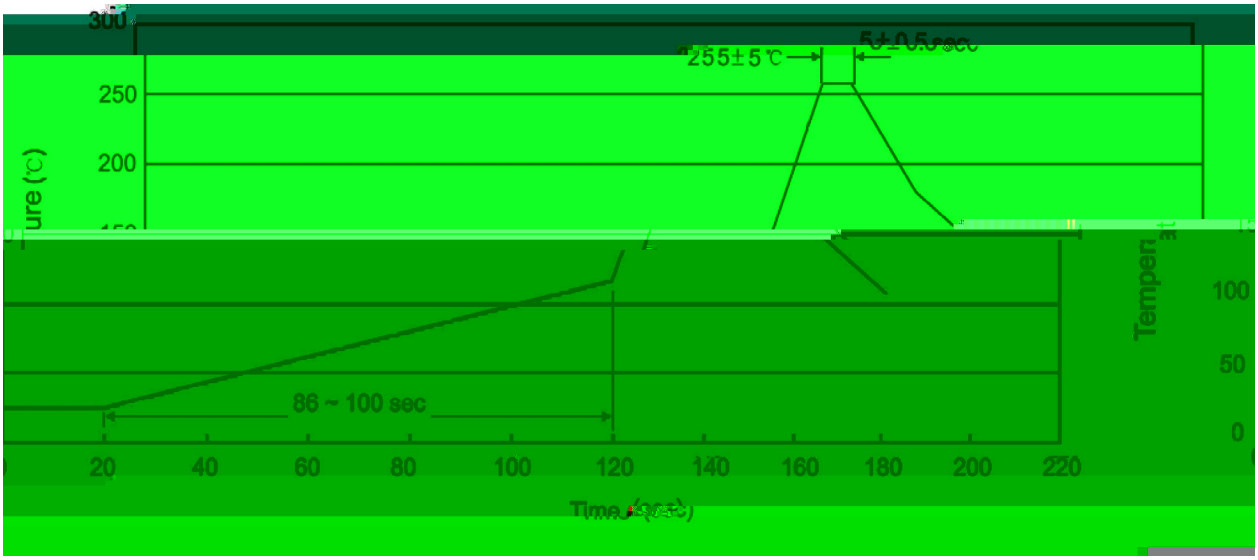
/ Electrical Characteristic Curve



/ Package Dimensions



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



ب ˝ χ

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

2 Š Ө □ ỷ 255 ° 5 ł ı ˙H ڑ ˙Y 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.: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	˙H ڑ χ 10 ° 1 sec.	Temp.:270±5	Time:10±1 sec

/ Packaging SPEC.

˙Ω ţ ﾘ Ł / 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	