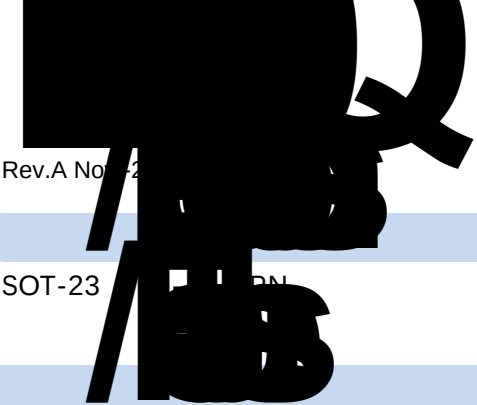


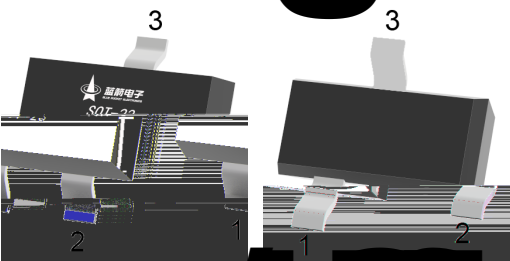
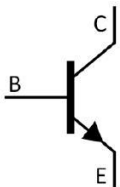


Rev.A No. 2

SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

1 ESD 4kV, 400V AEC-Q101
Moisture Sensitivity Level: 1, ESD Rating: Human Body Model; 4 kV, Machine Model; 400 V, Qualified to AEC-Q101, Meets standards for High Reliability, HF Product.

Ic 500mA
Medium power amplifier and switch requiring collector currents up to 500 mA, Meet the stringent requirements of automotive applications.



PIN 1 Base E

hFE Range	100 300
Marking	Q2X



Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	40	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current	I_C	600	mA
Collector Power Dissipation	P_C	350	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$ $I_B=0$	40			V
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=0.1mA$ $I_E=0$	60			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=0.1mA$ I_C				



Rev.A Nov.-2022



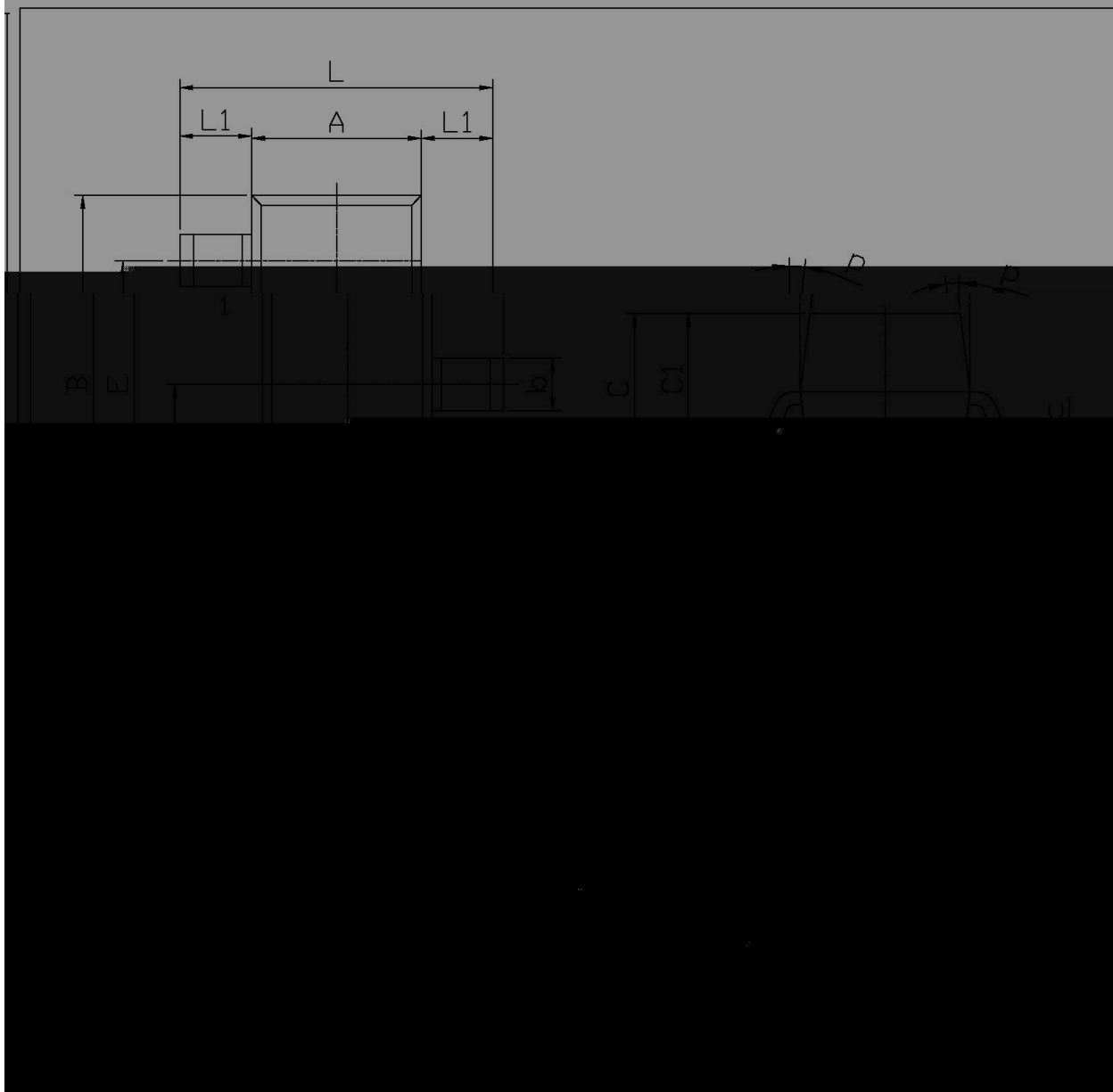
蓝箭电子
BLUE ROCKET ELECTRONICS

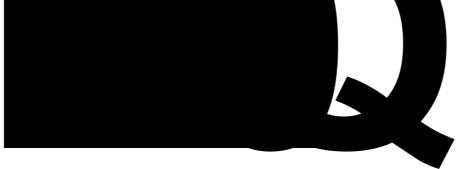




SOT-23

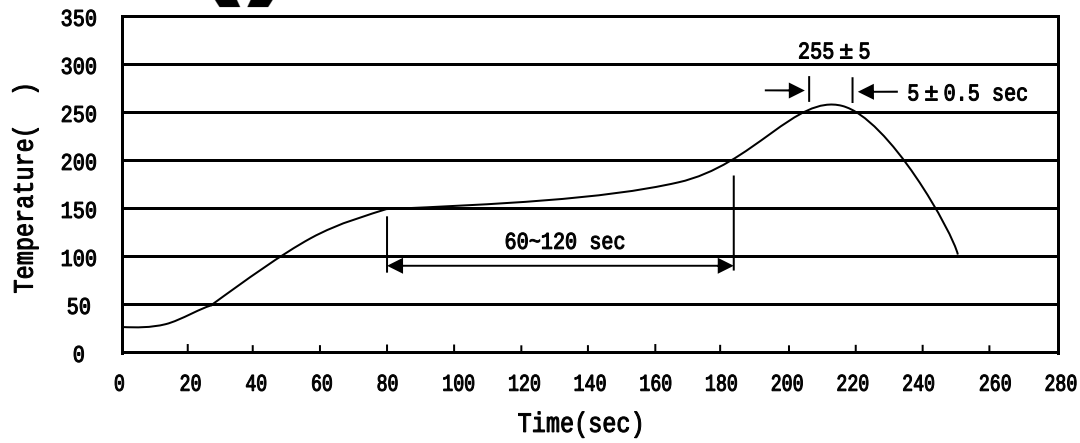
单位: mm







Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1. Preheating: 150~200 °C, Time: 60~120sec.
2. Peak Temperature: 255 ± 5 °C, Duration: 5 ± 0.5sec.
3. Cooling: 260 ± 5 °C, Time: 10 ± 1 sec.

260 ± 5 °C, 10 ± 1 sec.

Package Type	Reel	Inner Box	Units			Dimension (unit mm ³)		
			Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-23	7	180,000	30,000	6	180,000	7 × 8	180 × 120 × 180	390 × 385 × 205