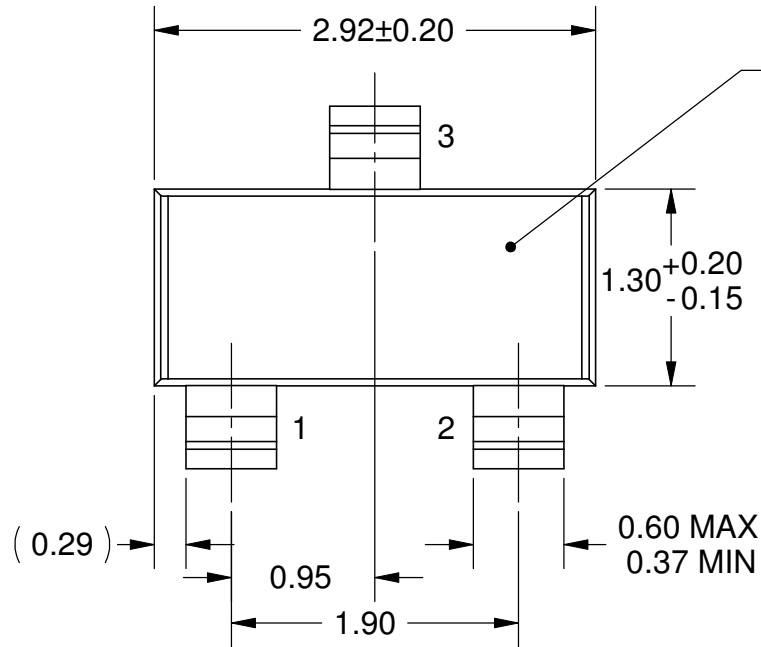
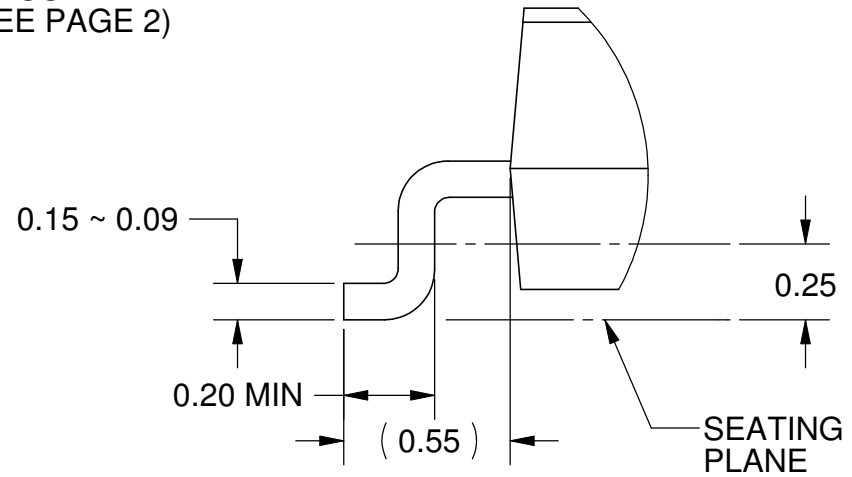


TOP VIEW

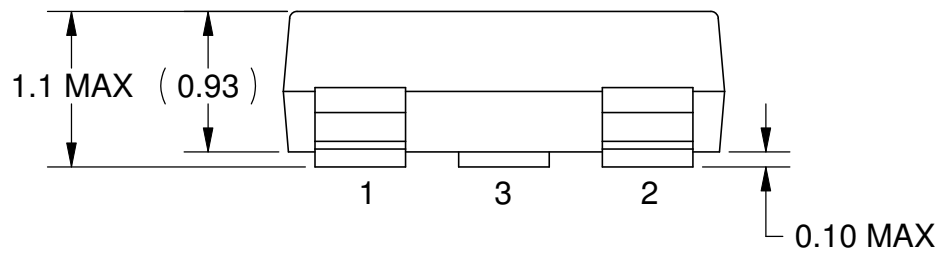


INTERNAL WIRING
CIRCUIT
(SEE PAGE 2)

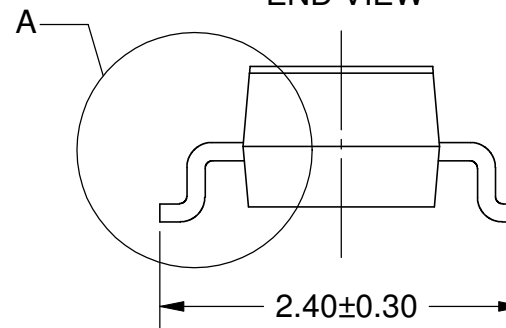
DETAIL A
SCALE 40 : 1



SIDE VIEW


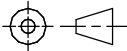


END VIEW

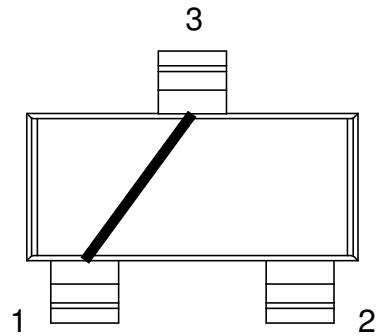


Notes: (Unless Otherwise Specified).

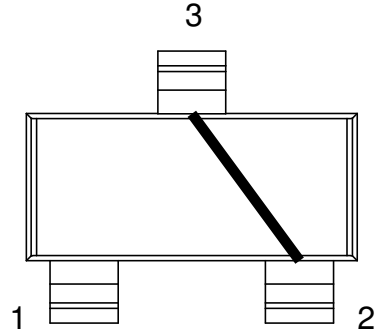
- 1) DIMENSIONS IN mm.
- 2) SEE DAISY CHAIN JUMPER DIAGRAMS (PAGE 2).
- 3) SEE PART NUMBER CONFIGURATION (PAGE 4).
- 4) RECOMMENDED PC BOARD LAYOUT PATTERN (PAGE 7).

TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.X	+/- 0.3	DRAWN J. Hines	12/18/2011				
X.XX	+/- 0.03			SOT23 JUMPER			
X.XXX	+/- 0.003			DAISY CHAIN			
ANGLES +/- 0.5°		ENG		SCALE	SIZE	DRAWING NO.	REV
ALL DIMENSIONS IN		MFG		20:1	A	120023	A
☐ INCHES ☒ MILLIMETERS		QA		DO NOT SCALE DRAWING			
THIRD ANGLE PROJECTION		CUST		SHEET 1 OF 8			
		REVISED					

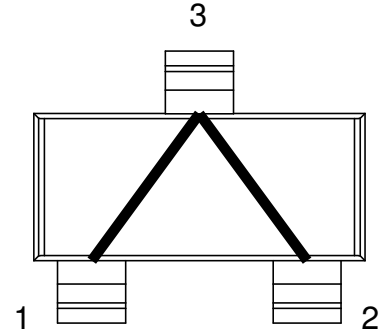
INTERNAL WIRING CIRCUIT (JUMPER)
DAISY CHAIN PART NUMBER SUFFIX
TOP VIEW



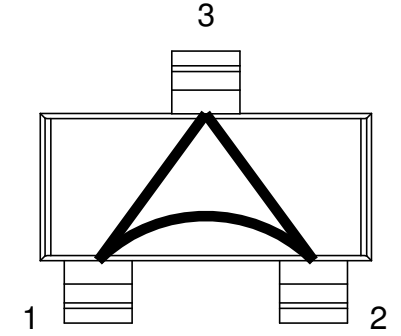
DC13
1-WIRE



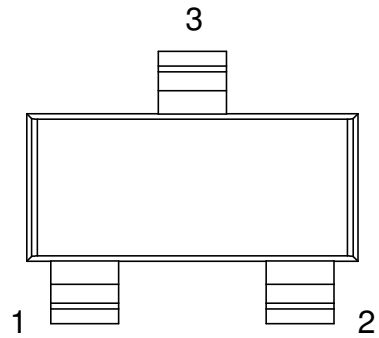
DC23
1-WIRE



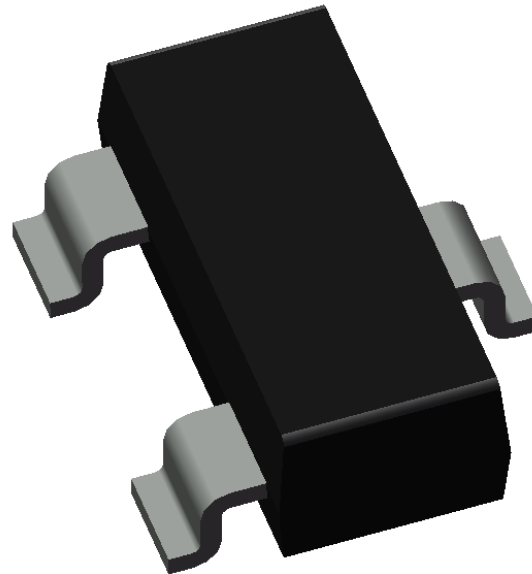
DC123
2-WIRE



DC1231
3-WIRE
SAFETY WIRE
DESIGN

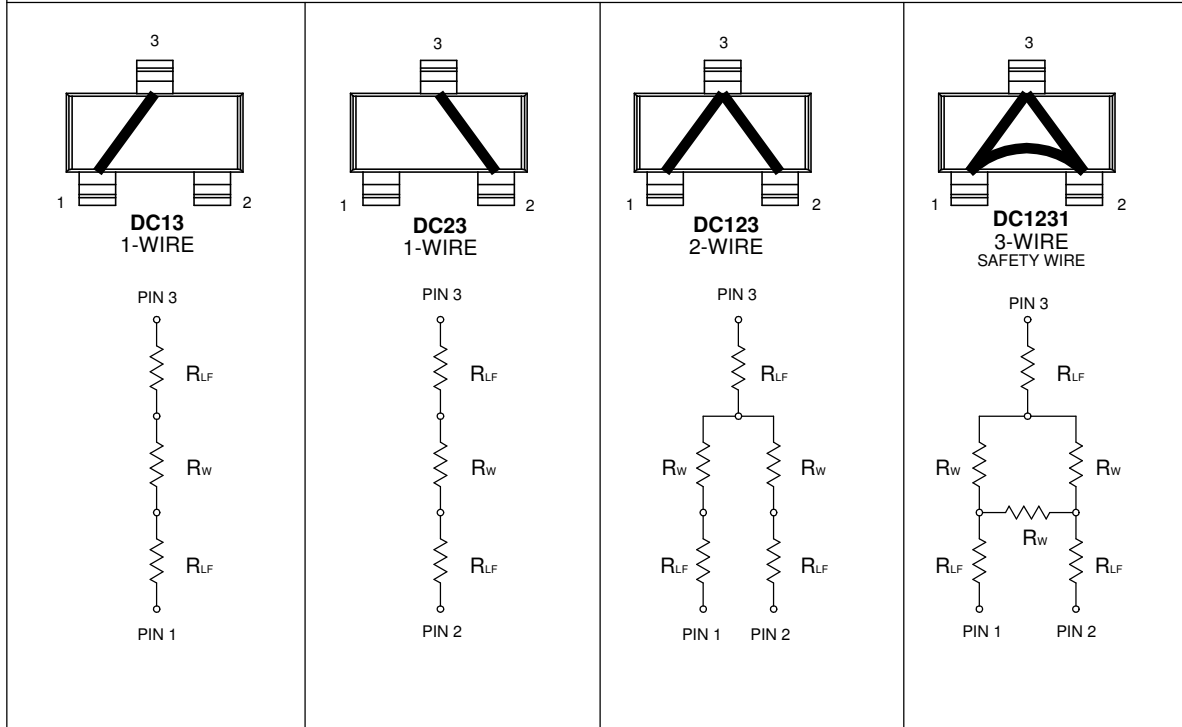


-ISO
NO WIRES
FULLY ISOLATED



TopLine ®			
TITLE		SOT23 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
25:1	A	120023	A
DO NOT SCALE DRAWING			SHEET 2 OF 8

SCHEMATIC EQUIVALENT INTERNAL CIRCUIT



ELECTRICAL RESISTANCE MILIOHM (DC) MAX			
CIRCUIT	PIN 1 TO 3	PIN 2 TO 3	PIN 1 TO 2
DC13	50 mΩ	--	--
DC23	--	50 mΩ	--
DC123	50 mΩ	50 mΩ	75 mΩ
DC1231	50 mΩ	50 mΩ	50 mΩ

R_W = GOLD WIRE-BOND.
R_{LF} = LEAD FRAME.

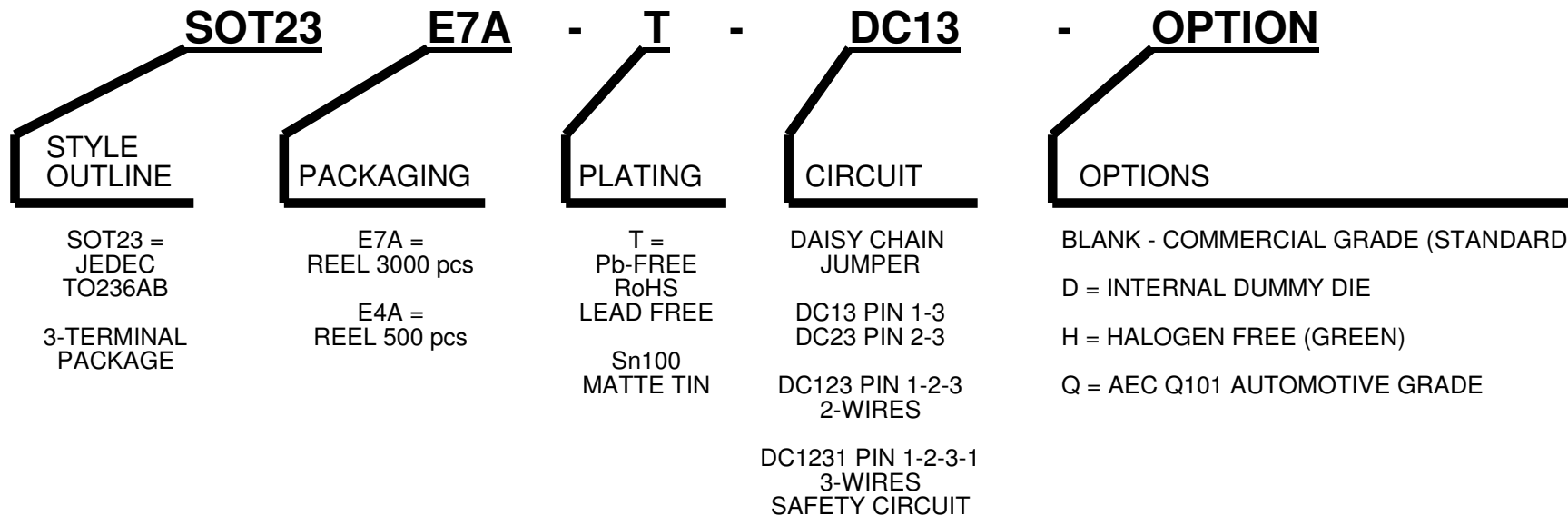
TEMPERATURE RATING	
JUNCTION TEMP T _J	150 °C
STORAGE TEMP T _{stg}	-65 °C TO 150 °C
OPERATING TEMP	-65 °C TO 150 °C
PEAK REFLOW TEMP T _{reflow} 10 SECONDS	260 °C

MAXIMUM ELECTRICAL (DC) RATING	
WORKING VOLTAGE	75 V
CURRENT RATING	100 mA
POWER @ 25 °C	350 mW

THERMAL RESISTANCE	
JUNCTION TO AMBIENT (T _a =25 °) R _{th(j-a)}	350K/W

TopLine ®			
TITLE		SOT23 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
8:1	A	120023	A
DO NOT SCALE DRAWING			SHEET 3 OF 8

PART NUMBERING SYSTEM



ISO = ISOLATED CIRCUIT
NO CONNECTIONS

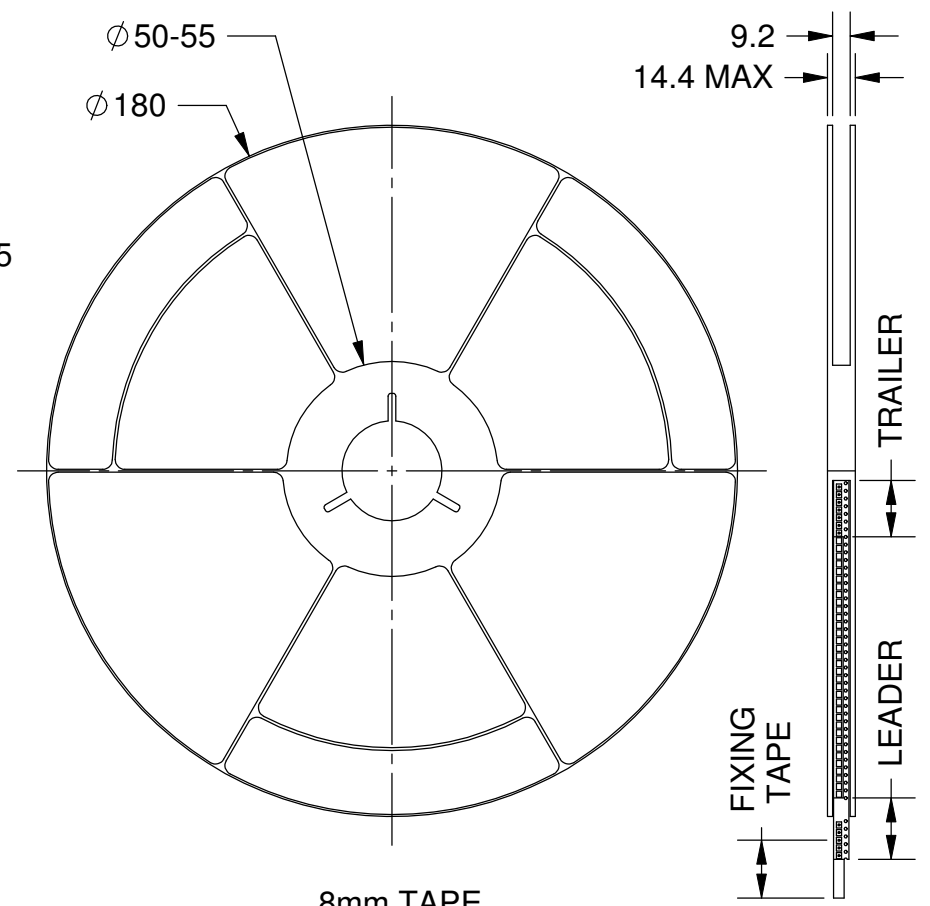
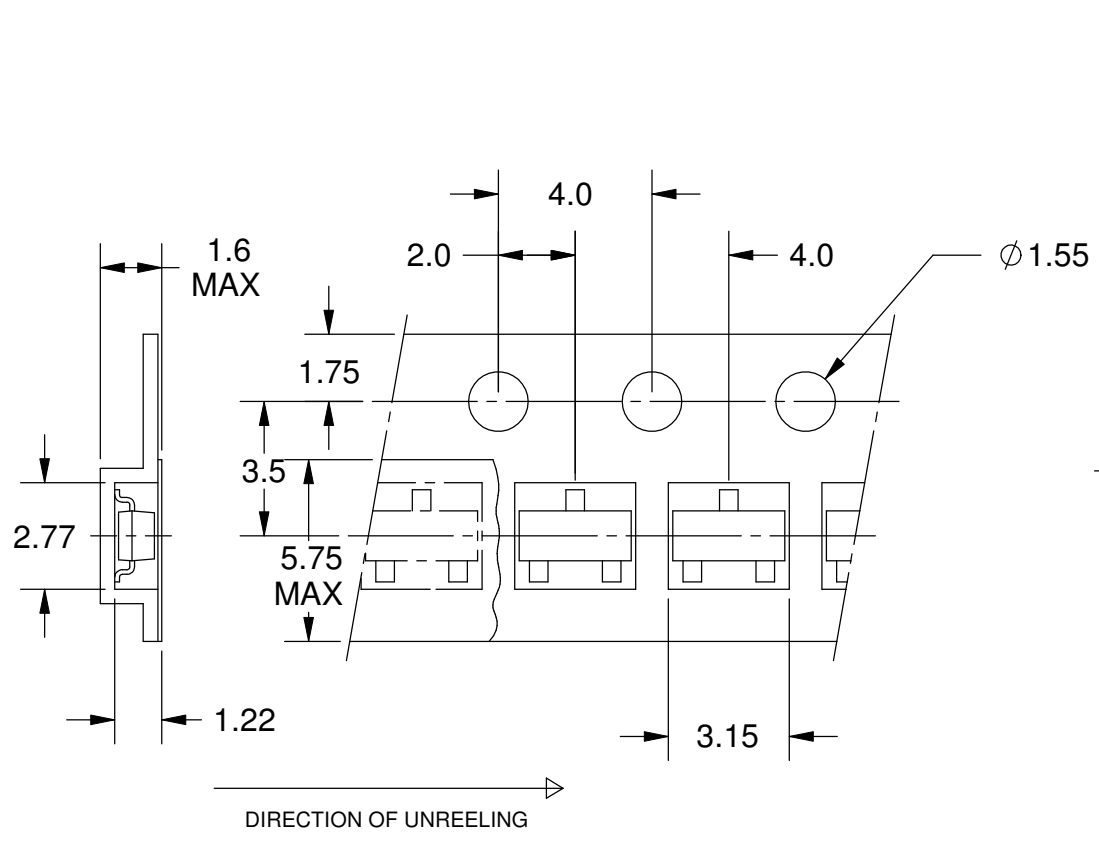
PART NUMBER	SHORTED PINS	NOTES	RoHS Pb-FREE	MSL LEVEL	HALOGEN FREE	GRADE	TOP MARK
SOT23E7A-TIN	N/A	DUMMY	YES	3	NO	COMMERCIAL	N/A
SOT23E7A-T-ISO	NONE	FULLY ISOLATED	YES	3	NO	COMMERCIAL	ISO
SOT23E7A-T-DC13D	1-3	1-WIRE	YES	3	NO	COMMERCIAL	D13
SOT23E7A-T-DC23D	2-3	1-WIRE	YES	3	NO	COMMERCIAL	D23
SOT23E7A-T-DC123	1-2-3	2-WIRES	YES	3	NO	COMMERCIAL	123
SOT23E7A-T-DC13H	1-3	1-WIRE	YES	1	YES	COMMERCIAL	13H
SOT23E7A-T-DC13Q	1-3	1-WIRE	YES	1	NO	AEC-Q101	13Q
SOT23E7A-T-DC23H	2-3	1-WIRE	YES	1	YES	COMMERCIAL	23H
SOT23E7A-T-DC23Q	2-3	1-WIRE	YES	1	NO	AEC-Q101	23Q
SOT23E7A-T-DC1231H	1-2-3	3-WIRES	YES	1	YES	COMMERCIAL	3H
SOT23E7A-T-DC1231Q	1-2-3	3-WIRES	YES	1	NO	AEC-Q101	3Q

NOTES: ADD "D" TO END OF PART NUMBER FOR DUMMY SILICON DIE.

TopLine ®			
TITLE		SOT23 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
25:1	A	120023	A
DO NOT SCALE DRAWING			SHEET 4 OF 8

TAPE SPECIFICATION FOR SOT-23
SURFACE MOUNT DEVICE

SOT-23 PACKAGE REEL

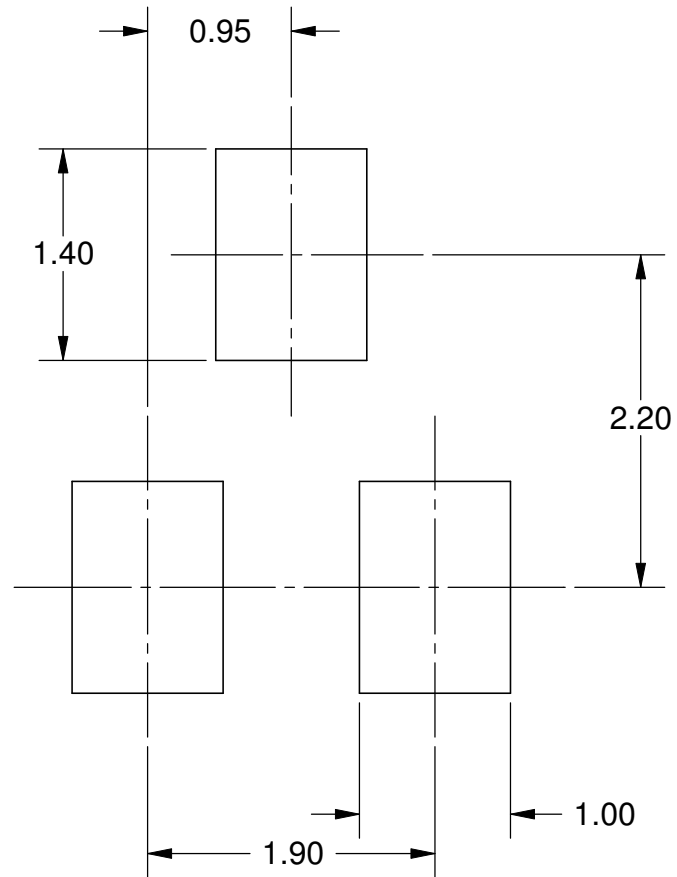


8mm TAPE
SIZE OF REEL
180mm (7")
3,000 PCS

ALL DIMENSIONS IN mm

TopLine [®]			
TITLE		SOT23 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
1:1	A	120023	A
DO NOT SCALE DRAWING			SHEET 5 OF 8

PC BOARD LAND PATTERN



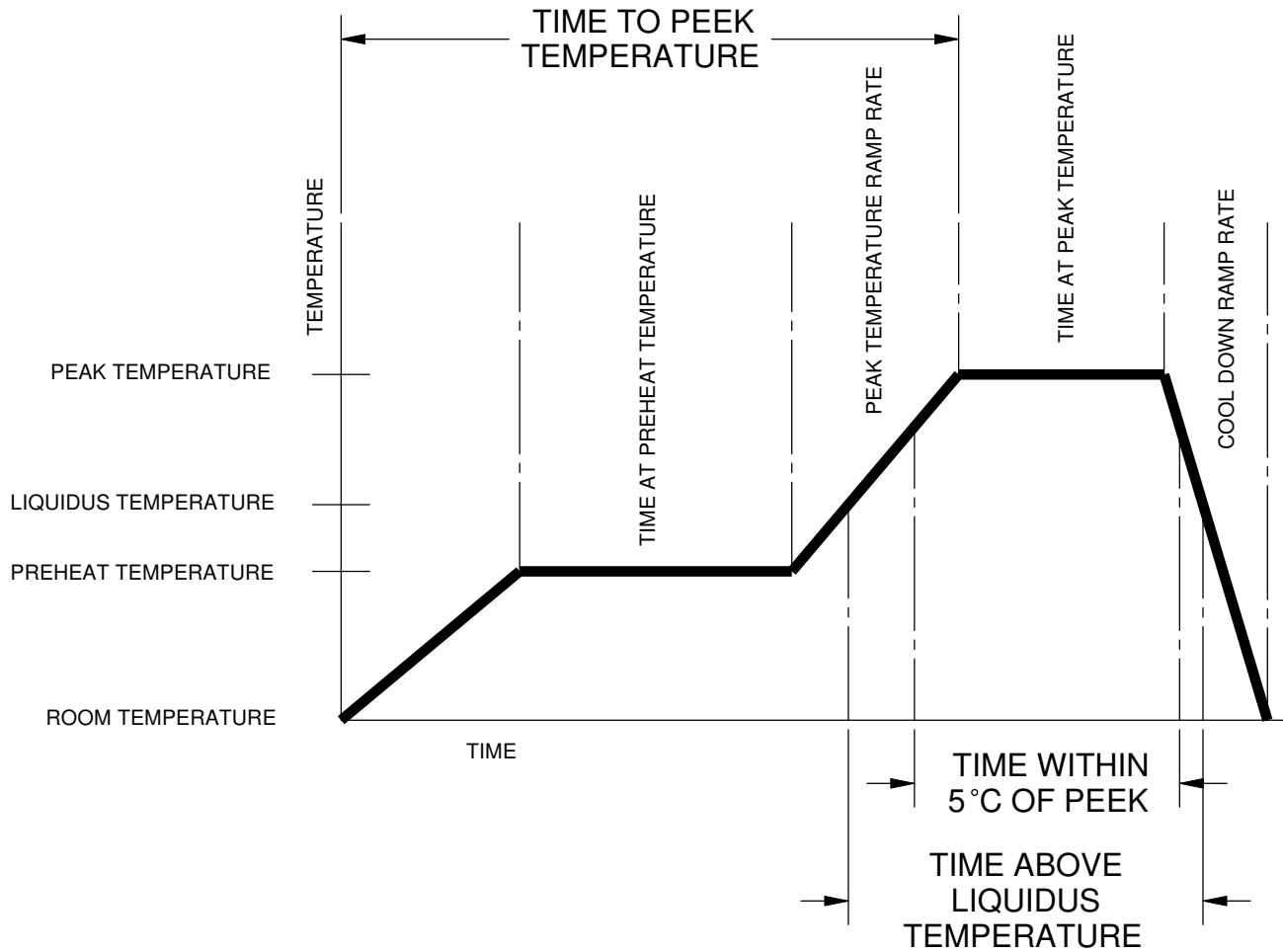
Notes: (Unless Otherwise Specified).

1) DIMENSIONS IN mm.

2) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE.
DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.

TopLine [®]			
TITLE		SOT23 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
20:1	A	120023	A
DO NOT SCALE DRAWING			SHEET 7 OF 8

LEAD FREE REFLOW PROFILE OF SMD PACKAGE



DESCRIPTION	REQUIREMENT
AVERAGE PREHEAT RAMP RATE	3°C /SECOND MAXIMUM
PREHEAT TEMPERATURE	150°C MINIMUM, 200°C MAXIMUM
PREHEAT TIME	60 TO 80 SECONDS
RAMP TO PEAK	3°C /SECOND MAXIMUM
TIME OVER LIQUIDUS (217 °C)	60 TO 150 SECONDS
PEAK TEMPERATURE	260°C +0/-5 °C
TIME WITHING 5°C OF PEAK	20 TO 40 SECONDS
RAMP - COOL DOWN	6°C /SECONDS MAXIMUM
TIME 25°C TO PEAK	8 MINUTES MAXIMUM

TopLine ®			
TITLE		SOT23 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
1:1	A	120023	A
DO NOT SCALE DRAWING			SHEET 8 OF 8