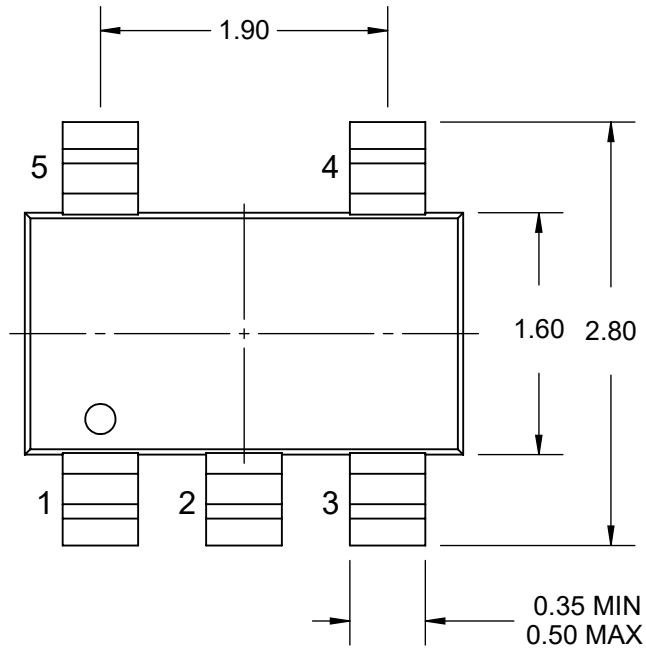
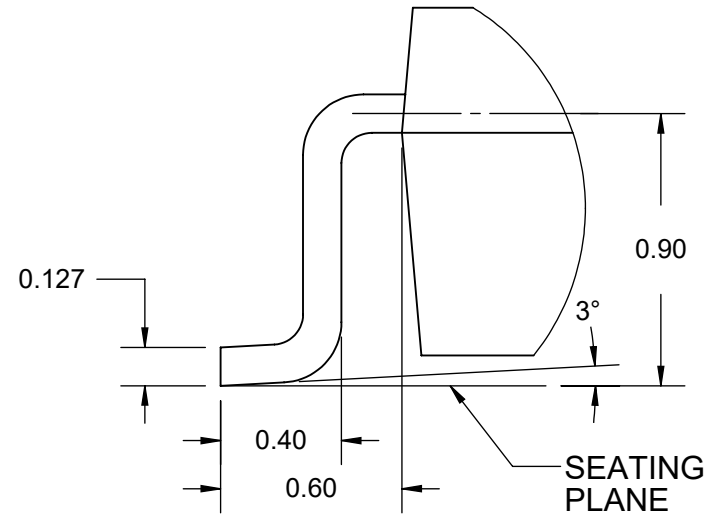


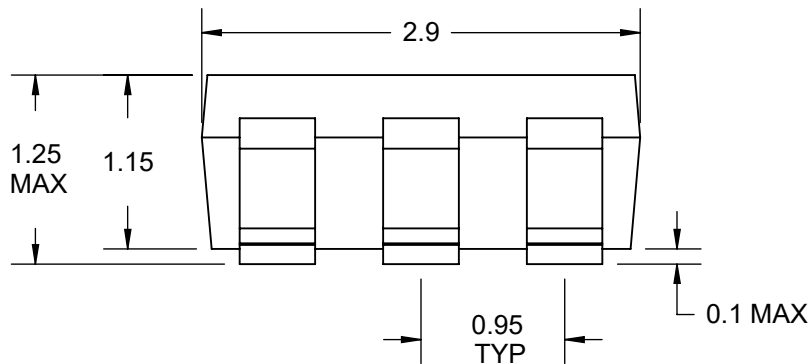
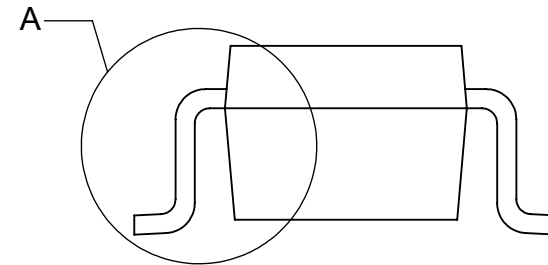
### TOP VIEW



### DETAIL A SCALE 40 : 1




### END VIEW

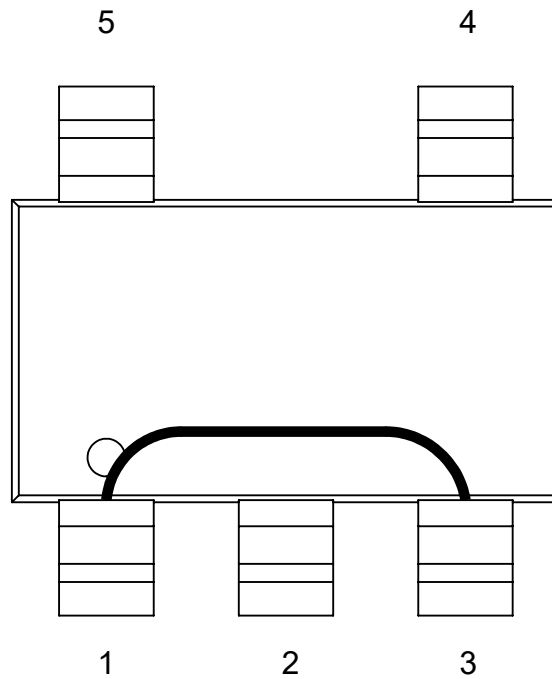


Notes: (Unless Otherwise Specified).

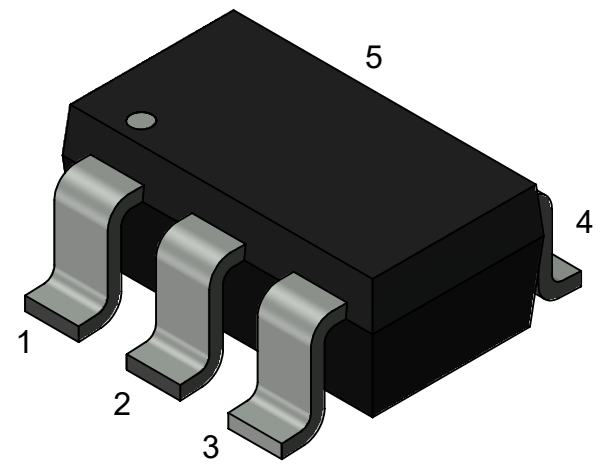
- 1) DIMENSIONS IN mm.
- 2) SEE JUMPER DIAGRAM (PAGE 2).
- 3) SEE PART NUMBER CONFIGURATION (PAGE 4).
- 4) RECOMMENDED PC BOARD LAYOUT PATTERN (PAGE 7).

APPROVALS		DATE				
DRAWN	T.Au	3/1/2020				
ENG	M. Hart	3/1/2020	SCALE		SIZE	DRAWING NO.
MFG			20:1		A	122531
QA						REV
CUST						A
REVISED			DO NOT SCALE DRAWING			SHEET 1 OF 7

INTERNAL WIRING CIRCUIT (JUMPER)  
PART NUMBER SUFFIX  
TOP VIEW



**DC31**

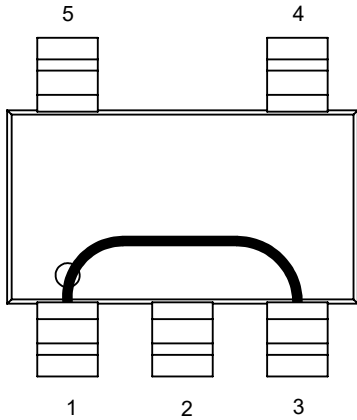


SOT25 PACKAGE

**TopLine®**

TITLE				SOT25-DC31 JUMPER PIN 1~3			
SCALE	SIZE	DRAWING NO.		REV			
20:1	A	122531		A			
DO NOT SCALE DRAWING			SHEET 2 OF 7				

**SCHEMATIC EQUIVALENT INTERNAL CIRCUIT**



**DC31**



R<sub>w</sub> = WIRE-BOND.

**TEMPERATURE RATING**

JUNCTION TEMP T <sub>J</sub>	150 °C
STORAGE TEMP T <sub>stg</sub>	-65 °C TO 150 °C
PEAK REFLOW TEMP T <sub>reflow</sub> 10 SECONDS	260 °C

**THERMAL RESISTANCE**

JUNCTION TO AMBIENT (T <sub>a</sub> =25 °) R <sub>th(j-a)</sub>	350K/W
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**ELECTRICAL RESISTANCE MILIOHM (DC) MAX**

CIRCUIT	PIN 1 TO 3
DC31	50 mΩ

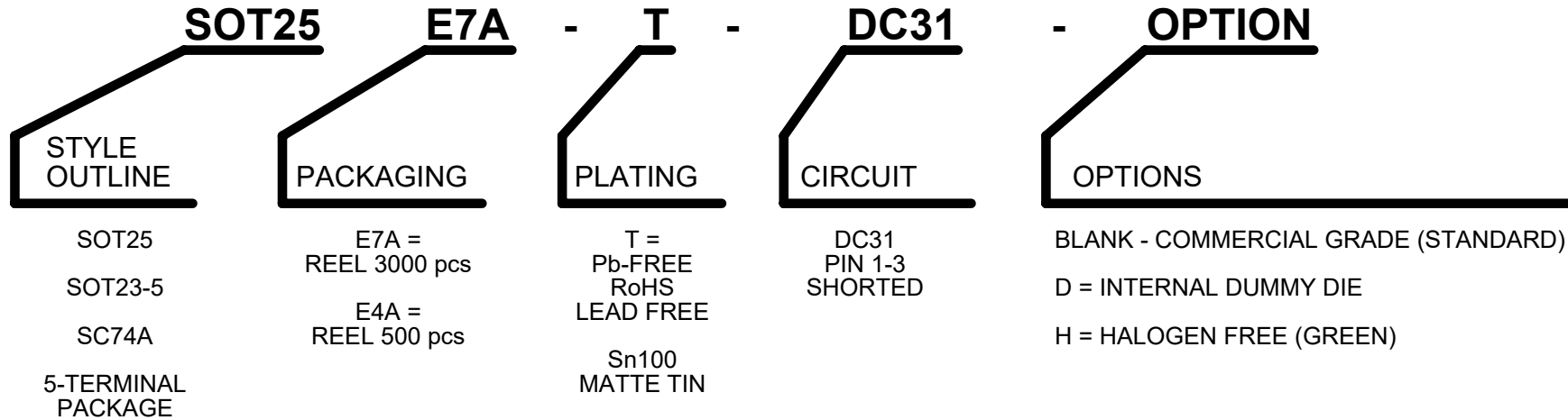
**MAXIMUM ELECTRICAL (DC) RATING**

WORKING VOLTAGE	100V
CURRENT RATING	200mA
POWER @ 25 °C	200mV



TITLE				SOT25-DC31 JUMPER PIN 1~3			
SCALE	SIZE	DRAWING NO.		REV			
8:1	A	122531		A			
DO NOT SCALE DRAWING						SHEET 3 OF 7	

# PART NUMBERING SYSTEM

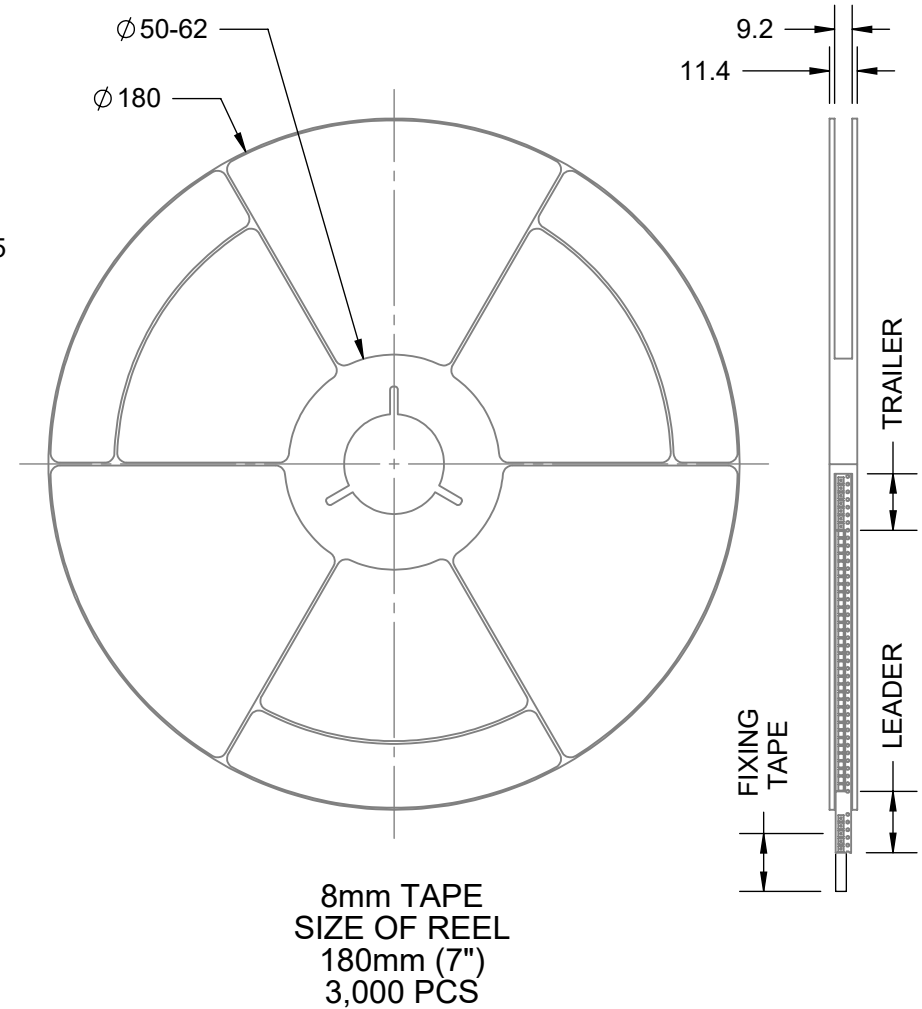
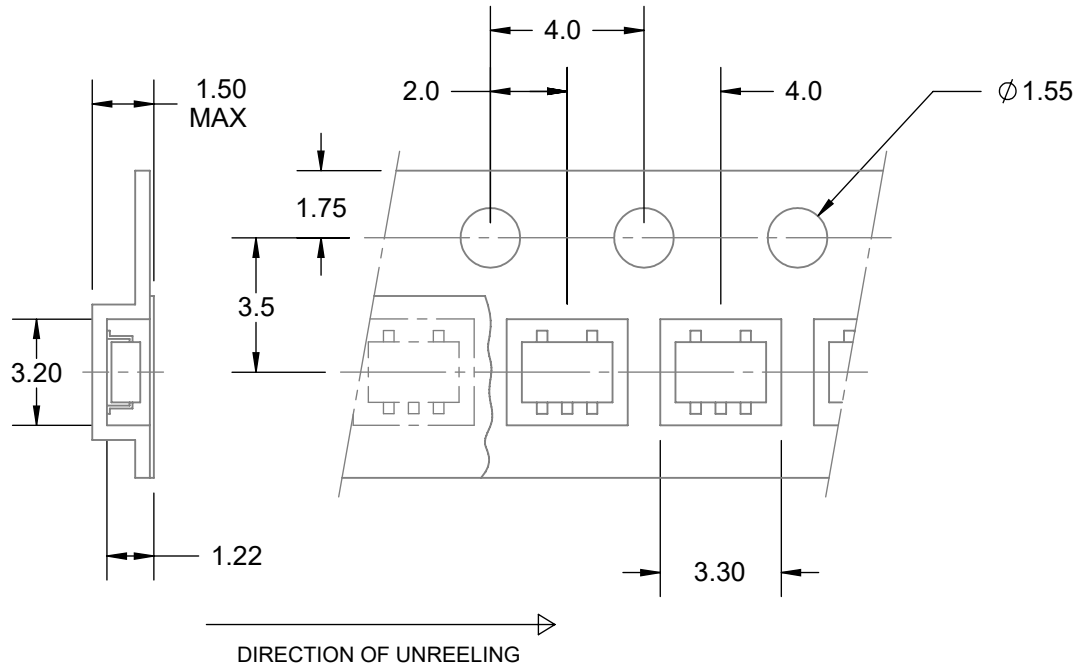


PART NUMBER	SHORTED PINS	RoHS Pb-FREE	MSL LEVEL	HALOGEN FREE	GRADE	TOP MARK
SOT25E7A-T-DC31D	1 to 3	YES	1	YES	COMMERCIAL	31D
SOT25E7A-T-DC31H	1 to 3	YES	1	YES	COMMERCIAL	31H

<b>TopLine®</b>			
TITLE SOT25-DC31 JUMPER PIN 1~3			
SCALE 25:1	SIZE A	DRAWING NO. 122531	REV A
DO NOT SCALE DRAWING			SHEET 4 OF 7

# TAPE SPECIFICATION FOR SOT25 (SC74A) SURFACE MOUNT DEVICE

# PACKAGE REEL



ALL DIMENSIONS IN mm

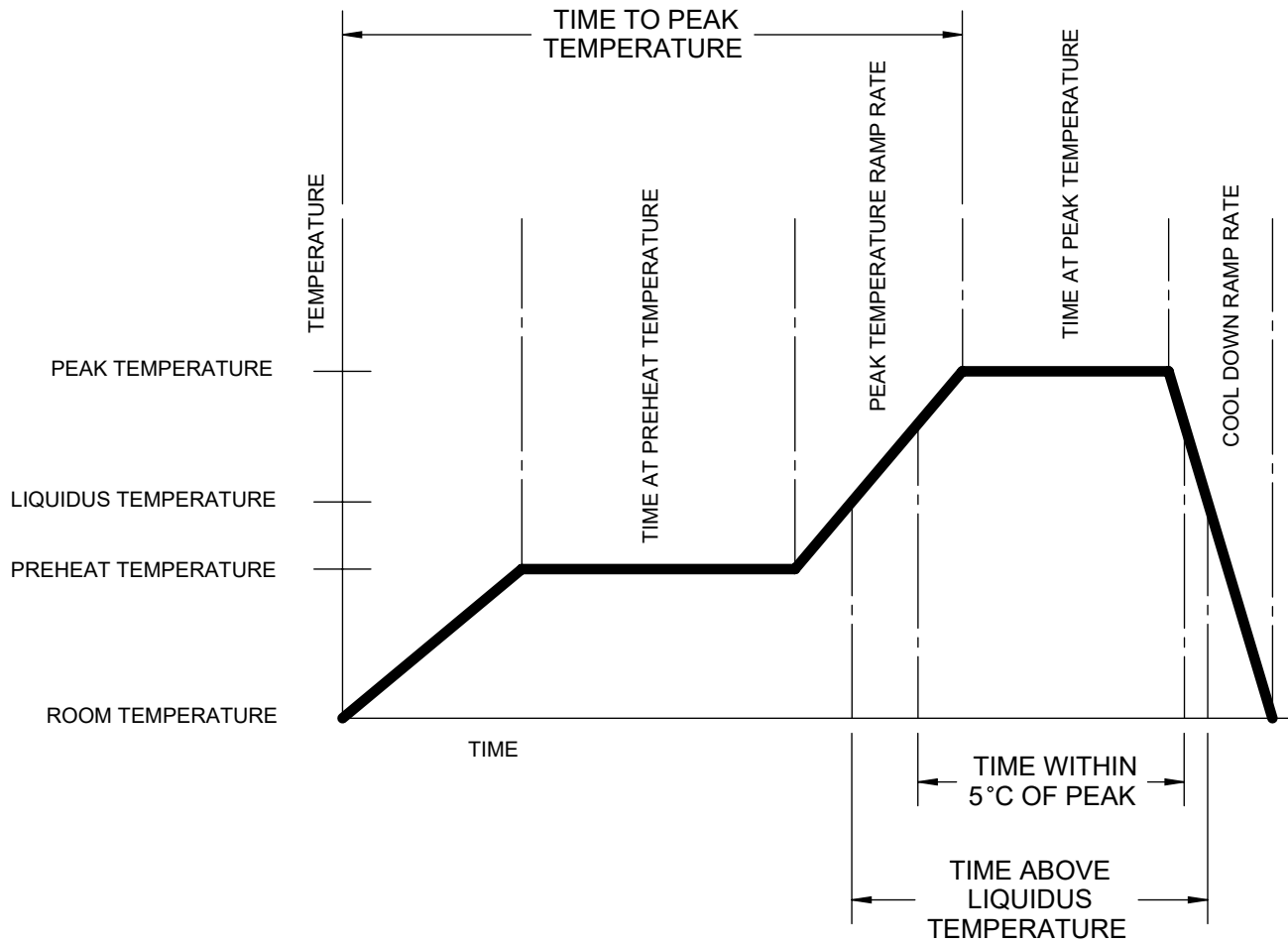
<b>TopLine®</b>			
TITLE SOT25-DC31 JUMPER PIN 1~3			
SCALE 1:1	SIZE A	DRAWING NO. 122531	REV A
DO NOT SCALE DRAWING		SHEET 5 OF 7	

**MATERIALS CONTENT DECLARATION FORM**  
**SOT25 (SC74A) PACKAGE**

<b>SOT25 (SC74A) PACKAGE Pb-FREE RoHS</b>					
<b>1 PC WT: 16.21 mg</b>					
<b>COMPOSITION BREAKDOWN</b>	<b>M.U.M. (MAKE UP OF MATERIALS)</b>	<b>CHEMICAL COMPOSITION</b>	<b>CAS NO</b>	<b>MASS %</b>	<b>SUBSTANCE WEIGHT (mg)</b>
LEADFRAME (5.3 mg)	A194 COPPER	Cu	7440-50-8	97.50%	5.1680
		Fe	7439-89-6	2.35%	0.1250
		P	7723-14-0	0.03%	0.0020
		Zn	7440-66-6	0.12%	0.0060
DIE CHIP (1.5 mg)	SILICON	SILICON (Si)	7440-21-3	100%	1.5
BONDING WIRE (0.8 mg)	COPPER	COPPER (Cu)	7440-50-8	100%	0.80
ENCAPSULATION (7.41 mg)	EPOXY RESIN	FUSED SILICA	60676-86-0	87.50%	6.48
		EPOXY RESIN	129915-35-1	5.00%	0.37
		CARBON BLACK	1333-86-4	0.50%	0.04
		EPOXY CRESOL NOVALAC	29690-82-2	2.00%	0.15
		PHENOL RESIN	90003-35-4	5.00%	0.37
TERMINATION PLATING (1.20 mg)	PURE TIN	TIN (Sn)	7440-31-5	100%	1.20

<b>TopLine®</b>			
TITLE      SOT25-DC31 JUMPER PIN 1~3			
SCALE 1:1	SIZE A	DRAWING NO. 122531	REV A
DO NOT SCALE DRAWING			SHEET 6 OF 7

# 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

<b>TopLine®</b>			
TITLE		SOT25-DC31 JUMPER PIN 1~3	
SCALE	SIZE	DRAWING NO.	REV
1:1	A	120363	A
DO NOT SCALE DRAWING			SHEET 7 OF 7