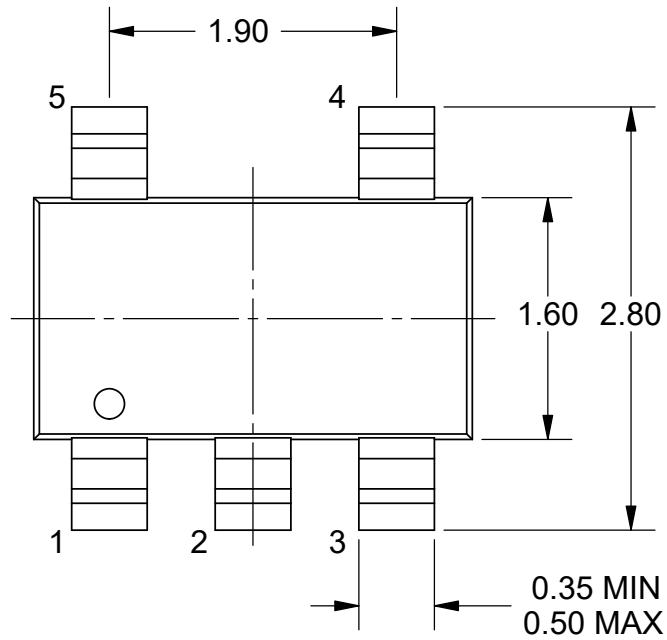
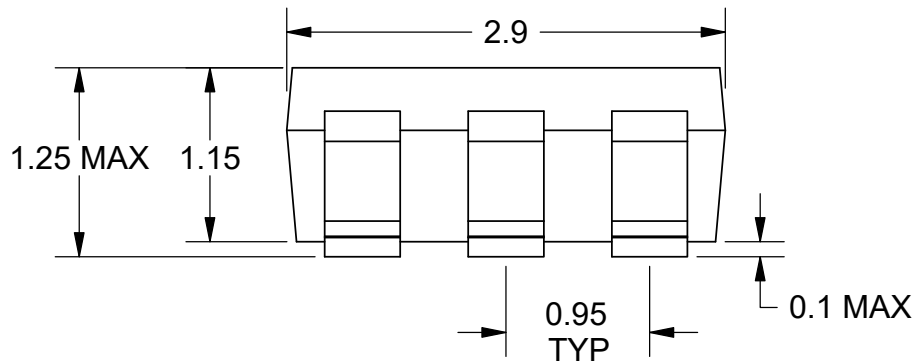


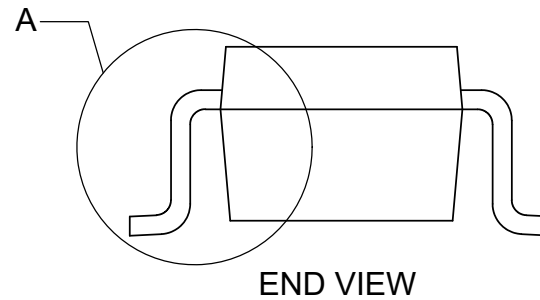
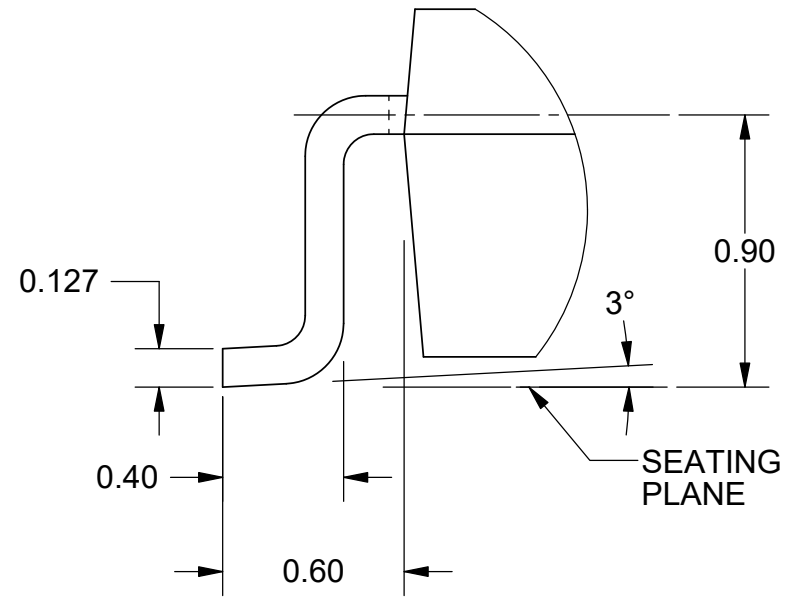
TOP VIEW



SIDE VIEW



DETAIL A
SCALE 40 : 1

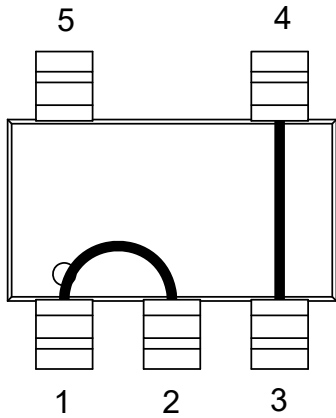


NOTES: (UNLESS OTHERWISE SPECIFIED).

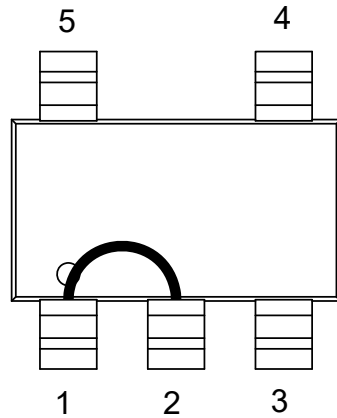
- 1) DIMENSIONS IN MM.
- 2) SEE DAISY CHAIN JUMPER DIAGRAMS (PAGE 2).
- 3) SEE PART NUMBER CONFIGURATION (PAGE 4).
- 4) RECOMMENDED PC BOARD LAYOUT PATTERN (PAGE 7).

APPROVALS		DATE	TopLine [®]			
DRAWN J. Hines		5/19/2017				
ENG M. Hart		5/19/2017	TITLE SOT25 JUMPER DAISY CHAIN			
MFG			SCALE 20:1	SIZE A	DRAWING NO. 120025	REV A
QA						
CUST			DO NOT SCALE DRAWING			
REVISED			SHEET 1 OF 8			

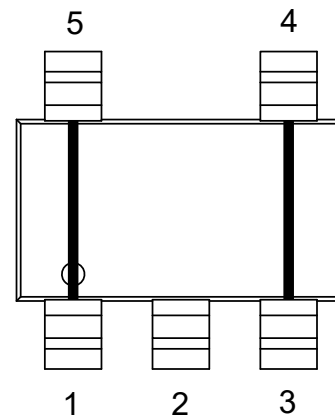
INTERNAL WIRING CIRCUIT (JUMPER)
 DAISY CHAIN PART NUMBER SUFFIX
 TOP VIEW



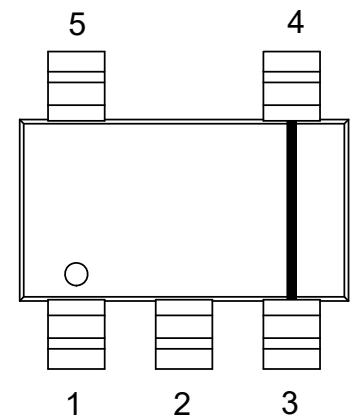
DC19
2-WIRE



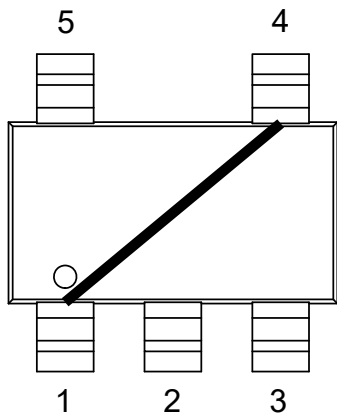
DC21
1-WIRE



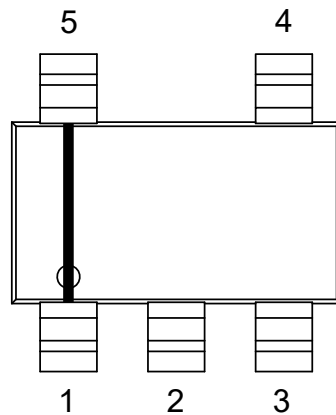
DC25
2-WIRE



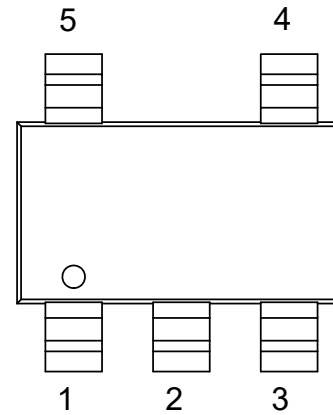
DC34
1-WIRE



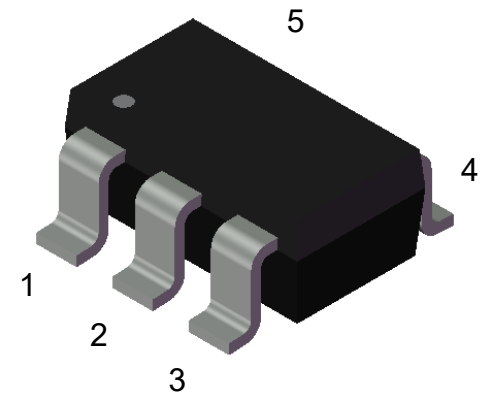
DC41
1-WIRE



DC51
1-WIRE



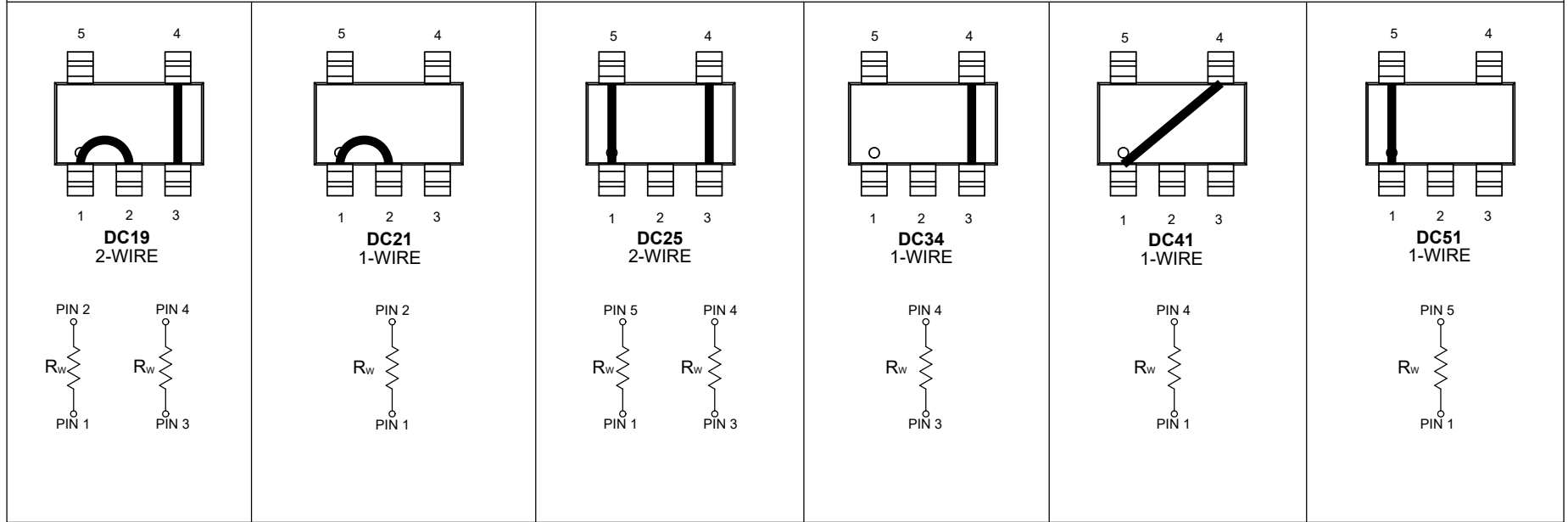
ISO
NO WIRE
FULLY ISOLATED



SOT25 PACKAGE

TopLine [®]			
TITLE		SOT25 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
15:1	A	120025	A
DO NOT SCALE DRAWING			SHEET 2 OF 8

SCHEMATIC EQUIVALENT INTERNAL CIRCUIT



R_w = GOLD WIRE-BOND.

TEMPERATURE RATING	
JUNCTION TEMP T_J	150 °C
STORAGE TEMP T_{stg}	-65 °C TO 150 °C
PEAK REFLOW TEMP T_{reflow} 10 SECONDS	260 °C

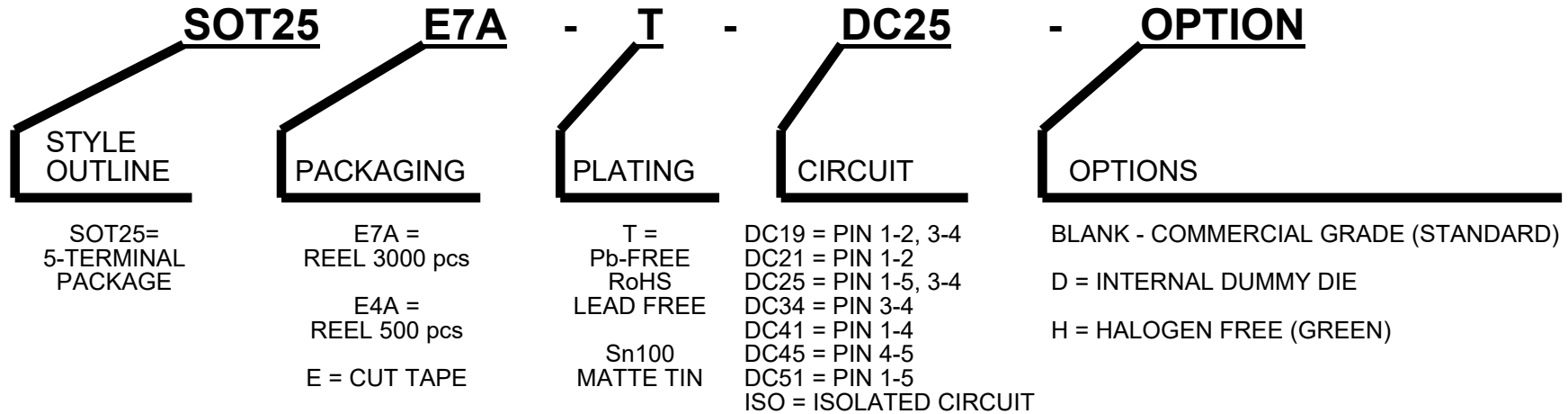
THERMAL RESISTANCE	
JUNCTION TO AMBIENT ($T_a=25^\circ$) $R_{th(j-a)}$	350K/W

ELECTRICAL RESISTANCE MILIOHM (DC) MAX				
CIRCUIT	PIN 1 TO 2	PIN 1 TO 5	PIN 3 TO 4	PIN 1 TO 4
DC19	50 mΩ	--	50 mΩ	--
DC21	50 mΩ	--	--	--
DC25	--	50 mΩ	50 mΩ	--
DC34	--	--	50 mΩ	--
DC41	--	--	--	50 mΩ
DC51	--	50 mΩ	--	--

MAXIMUM ELECTRICAL (DC) RATING	
WORKING VOLTAGE	100V
CURRENT RATING	150mA
POWER @ 25 °C	200mV

TopLine®			
TITLE		SOT25 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
8:1	A	120025	A
DO NOT SCALE DRAWING			SHEET 3 OF 8

PART NUMBERING SYSTEM



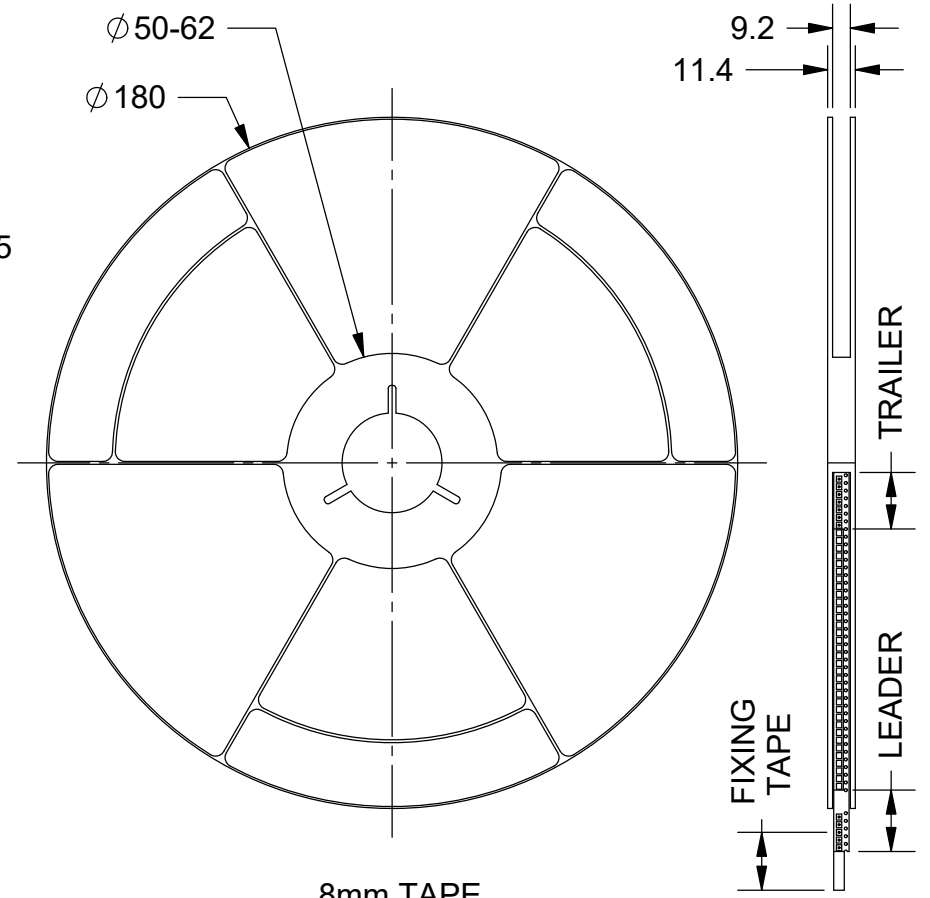
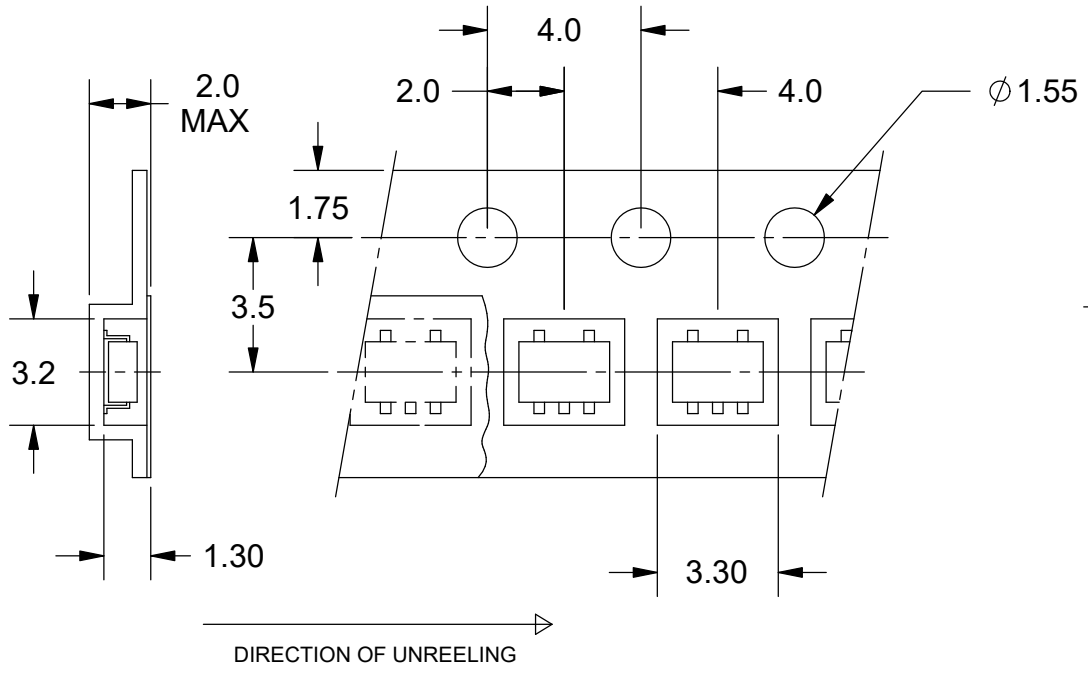
PART NUMBER	SHORTED PINS	NOTES	RoHS Pb-FREE	MSL LEVEL	HALOGEN FREE	GRADE	TOP MARK
SOT25E7A-TIN	N/A	DUMMY	YES	3	NO	COMMERCIAL	N/A
SOT25E7A-T-ISO	NONE	ISOLATED	YES	3	NO	COMMERCIAL	ISO
SOT25E7A-T-DC19	1-2, 3-4	2-WIRES	YES	3	NO	COMMERCIAL	19D
SOT25E7A-T-DC21	1-2	1-WIRE	YES	3	NO	COMMERCIAL	21D
SOT25E7A-T-DC25	1-5, 3-4	2-WIRES	YES	3	NO	COMMERCIAL	25D
SOT25E7A-T-DC41	1-4	1-WIRE	YES	3	NO	COMMERCIAL	41D
SOT25E7A-T-DC45	4-5	1-WIRE	YES	3	NO	COMMERCIAL	45D
SOT25E7A-T-DC51	1-5	1-WIRE	YES	3	NO	COMMERCIAL	51D
SOT25E7A-T-DC21H	1-2	1-WIRE	YES	1	YES	COMMERCIAL	21H
SOT25E7A-T-DC34H	3-4	1-WIRE	YES	1	YES	COMMERCIAL	34H
SOT25E7A-T-DC45H	4-5	1-WIRE	YES	1	YES	COMMERCIAL	45H
SOT25E7A-T-DC51H	1-5	1-WIRE	YES	1	YES	COMMERCIAL	51H

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

TopLine [®]			
TITLE		SOT25 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
25:1	A	120025	A
DO NOT SCALE DRAWING			SHEET 4 OF 8

TAPE SPECIFICATION FOR SOT25 (SC74A)
SURFACE MOUNT DEVICE

PACKAGE REEL




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

ALL DIMENSIONS IN mm

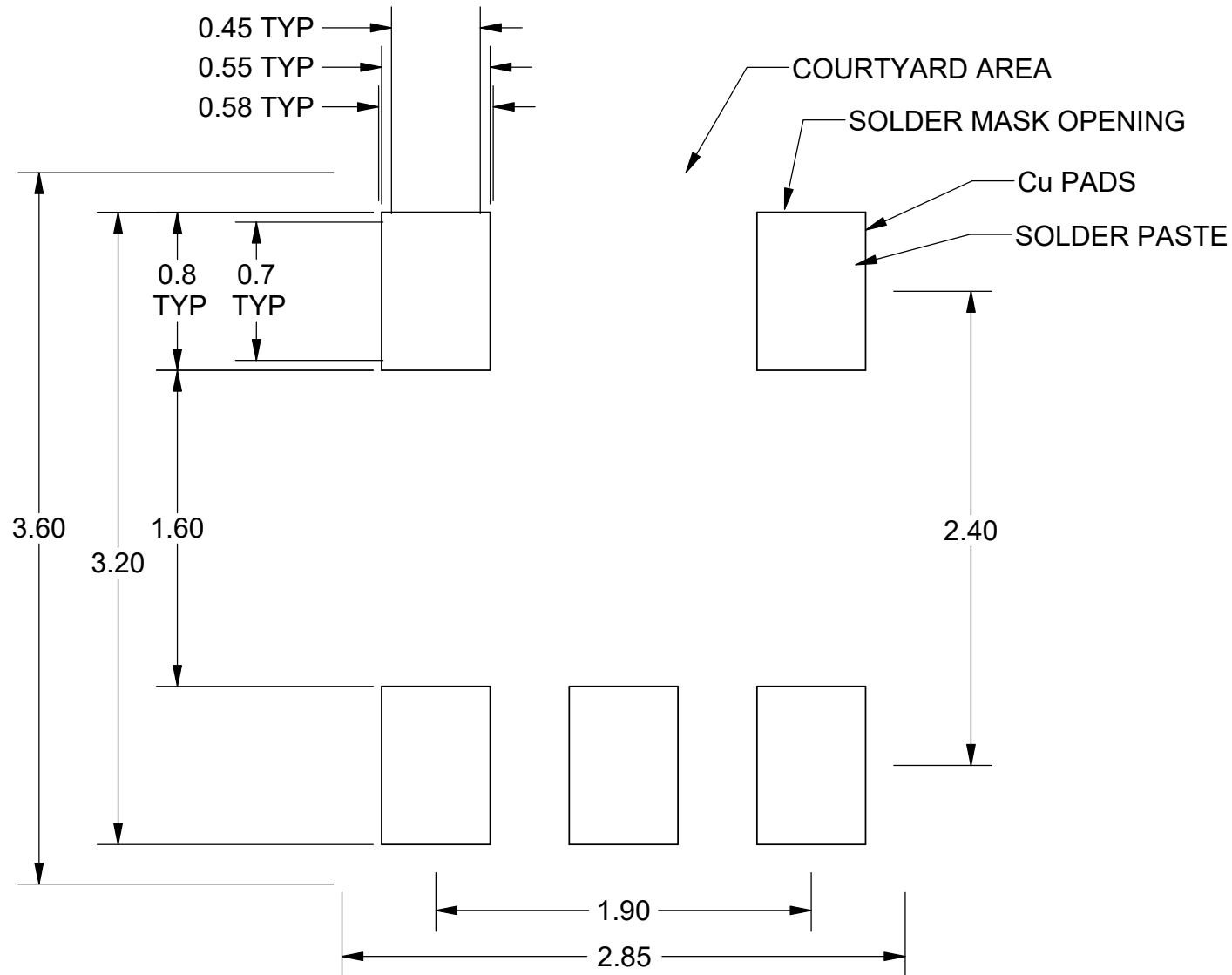
TopLine [®]			
TITLE		SOT25 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
1:1	A	120025	A
DO NOT SCALE DRAWING			SHEET 5 OF 8

MATERIALS CONTENT DECLARATION FORM
SOT25 (SC74A) PACKAGE

SOT25 (SC74A) PACKAGE Pb-FREE RoHS					
1 PC WT: 16.21 mg					
COMPOSITION BREAKDOWN	M.U.M. (MAKE UP OF MATERIALS)	CHEMICAL COMPOSITION	CAS NO	MASS %	SUBSTANCE WEIGHT (IN mg)
LEADFRAME (5.3 mg)	A194 COPPER	Cu	7440-50-8	97.50%	5.168
		Fe	7439-89-6	2.35%	0.125
		P	7723-14-0	0.03%	0.002
		Zn	7440-66-6	0.12%	0.006
DIE CHIP (1.5 mg)	SILICON	SILICON (Si)	7440-21-3	100%	1.5
BONDING WIRE (0.8 mg)	GOLD	GOLD (Au)	7440-57-5	100%	0.8
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	1.2

			
TITLE		SOT25 JUMPER DAISY CHAIN	
SCALE 1:1	SIZE A	DRAWING NO. 120025	REV A
DO NOT SCALE DRAWING		SHEET 6 OF 8	

PC BOARD LAND PATTERN
SOT25
SOT23-5L

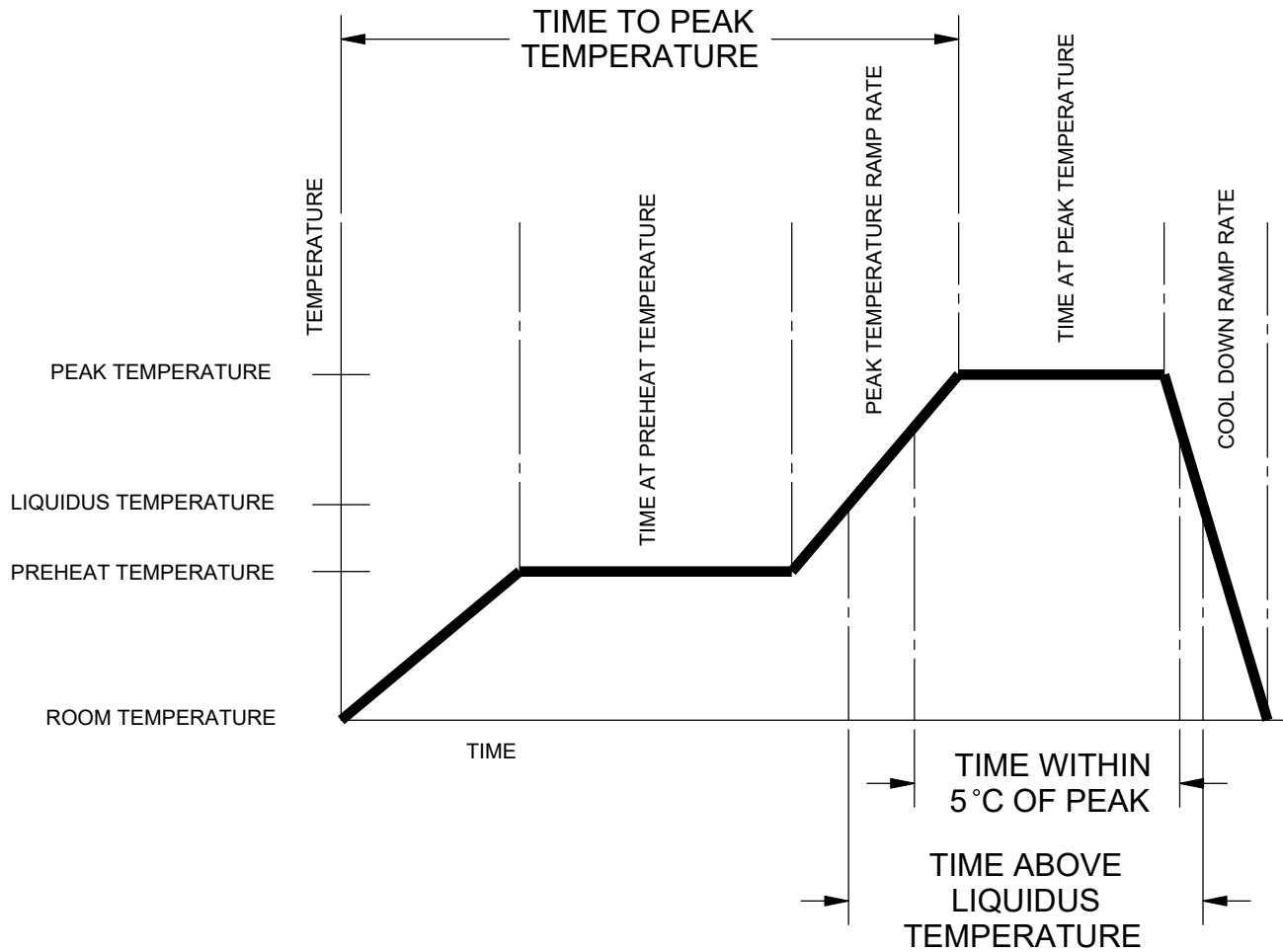


NOTES: (UNLESS OTHERWISE SPECIFIED).

- 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		SOT25 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
30:1	A	120025	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		SOT25 JUMPER DAISY CHAIN	
SCALE	SIZE	DRAWING NO.	REV
1:1	A	120025	A
DO NOT SCALE DRAWING			SHEET 8 OF 8