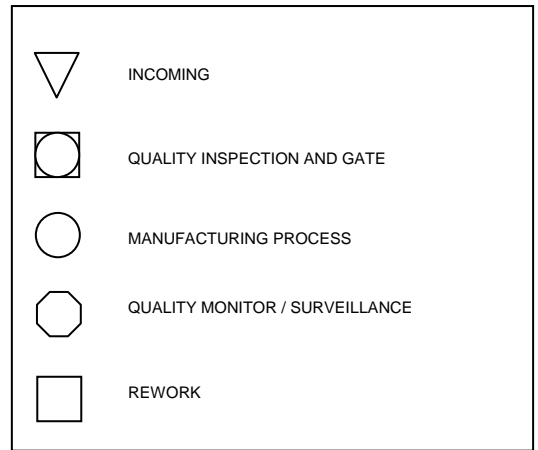


ASSEMBLY FLOWCHART
SOT23 PACKAGE
 Updated 11/08/2012

Vendor: Linear Technology Corporation
 Package: SOT 23 Package
 Assembly: LTC Penang Malaysia
UTAC Bangkok Thailand
 Final Test: Linear Technology Corp., Milpitas, CA.,& Singapore
 Q.C. Test: Linear Technology Corp., Milpitas, CA.,& Singapore
 Source Accept Test: Linear Technology Corp., Milpitas, CA.,& Singapore
 Quality Contact: Naib Girn, LTC Milpitas, CA
 (408) 432-1900 Ext. 2519



FLOW CHART INCOMING ASSY REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	WAFER INVENTORY	WAFER PREPARATION				
	WAFER MOUNT/CURE	WAFER INSPECTION	SPEC NO: 05-03-0501			
	WAFER SAW / CLEAN	DIE PREPARATION	SPEC NO: 05-03-0502	AUTO SAW		
	WAFER SAW MONITOR	VISUAL	SPEC NO: 06-02-0502	10X-30X SCOPE	EVERY LOT - 1 WAFER SETUP CHECK	% DEFECTIVE LOG
	2 ND OPTICAL INSPECTION	DIE QUALITY	SPEC NO: 05-03-0503 05-03-2039	75X - 150X MICROSCOPE	EVERY LOT 100% BASIS	YIELD ANALYSIS %
	QA 2 ND OPTICAL LOT ACCEPTANCE		SPEC NO: 06-02-0503 05-03-2039	75X - 150X MICROSCOPE	SAMPLE SIZE 32 0/1PER LOT	LAR AND % UNIT DEFECTIVE TREND CHART
	LEADFRAME INVENTORY	LEAD FRAME PREPARATION				
	QA INCOMING LEAD FRAME BUY-OFF		SPEC NO: 06-01-0507 01-07-0002			

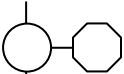

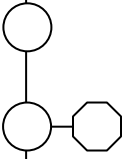

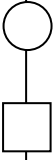

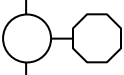

Revision A.

FLOW CHART INCOMING ASSY REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	EPOXY INVENTORY					
	QA INCOMING EPOXY BUY-OFF		SPEC NO: 06-01-0505			
	DIE ATTACH	DIE BONDED TO LAED FRAME WITH EPOXY	SPEC NO: 05-03-0504	AUTO DIE BONDER		
	DIE ATTACH MONITOR		SPEC NO: 06-02-0505	10X-30X MICROSCOPE	1 STRIP/MAGAZINE	nP CHART
	EPOXY CURE	DIE ATTACH EPOXY CURE	SPEC NO: 05-03-0505	OVEN		
	QA MONITORING	CURE QUALITY	SPEC NO: 06-02-0505	DIE SHEAR TESTER	1X/SHIFT/MACHINE	X-BAR-R CHART
	GOLD WIRE INVENTORY					
	QA INCOMING GOLD WIRE BUY-OFF		SPEC NO: 06-01-0509			
	WIRE BOND	BALL BONDS GOLD 1.00 MIL WIRE	SPEC NO: 05-03-0506	AUTO THERMOSONIC BALL BONDER	1 STRIP/MAGAZINE	nP CHART
	WIRE BOND MONITOR	BOND PULL STRENGTH BOND SHEAR STRENGTH	SPEC NO: 06-02-0506 06-02-0507	10X-30X MICROSCOPE BALL SHEAR TESTER WIRE PULL TEST	EVERY LOT	X-BAR-R CHART
	100% 3 RD OPTICAL INSPECTION	CHECK FOR WORKMANSHIP QUALITY PRIOR TO MOLDING	SPEC NO: 05-03-0508 05-03-0504 P05-03-3042	30X-60X MICROSCOPE	EVERY LOT	YIELD CHART
	QA 3 RD OPTICAL INSPECTION	DIE, DIE BOND, WIRE BOND VISUAL QUALIFY	SPEC NO: 06-02-0508 P05-03-3042	30X-60X MICROSCOPE	EVERY LOT – SAMPLE SIZE 125 0/1	LAR LOG PPM TREND CHART

Revision A

FLOW CHART INCOMING ASSY REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	MOLD COMPOUND INVENTORY QA INCOMING MOLD COMPOUND BUY-OFF		SPEC NO: 06-01-0513 01-99-0006			
	MOLDING		SPEC NO: 05-03-0511	TRANSFER MOLD		
	MOLD MONITOR	MOLDING QUALIFY	SPEC NO: 06-02-0511 MOLDABILITY DEFECTS, PACKAGE OFFSET ETC.	10X MIN. MICROSCOPE	1X PER SHIFT PER MACHINE	nP CHART
	DEFLASH BLANK		SPEC NO: 05-03-0520			
	DEFLASH/BLANK MONITOR	VISUAL/MACHENICAL DELAMINATION	SPEC NO: 06-02-0520	30X MICROSCOPE SCANNING ACOUSTIC MICROSCOPE	MIN 1 LOT PER SHIFT PER MACHINE MIN 2 LOTS PER SHIFT PER MACHINE	nP CHART
	BOTTOM MARK LASER TOP MARK LASER TOP MARK MONITOR	TRACEABILITY, DEVICE MARKING MARKING QUALITY	SPEC NO: 05-03-0528 05-03-4601 SPEC NO: 05-03-0528 05-03-8000 SPEC NO: 06-02-0519	 MIN 3X SCOPE	 EVERY LOT – 2 STRIPS MINIMUM	 LOG
	SOLDER INVENTORY					
	QA INCOMING SOLDER BUYOFF SOLDER PLATE SOLDER PLATE MONITOR	 LEAD FINISH SOLDERABILITY, SOLDER COMPOSITION AND THICKNESS	SPEC NO: 06-01-0517 SPEC NO: 05-03-0518 SPEC NO: 06-02-0518	 AUTO STRIP PLATER 7X – 30X MICROSCOPE XRF EQUIPMENT	 1 LOT PER PACKAGE PER SHIFT 3 LOTS PER MACHINE PER SHIFT	 LOG LOG X-BAR-R CHART
	QA X-RAY GATE		SPEC NO: 06-02-0512	X-RAY EQUIPMENT	EVERY LOT – 20 0/1	QA LOG

Revision A

FLOW CHART INCOMING ASSY REWORK	PROCESS STEP	DESCRIPTION	INSPECTION/TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	STRIP INSPECTION	100% INSPECTION	SPEC NO: 05-03-0519 P05-03-8082	3X SCOPE		LOG
	QA LOT ACCEPTANCE	GATE	SPEC NO: 06-02-0518	3X SCOPE	SAMPLE SIZE: 125 0/1	LOG
	TRIM/FORM/SINGULATE TRIM/FORM/SINGULATE MONITORING	SINGULATE UNIT VISUAL AND DIMENSIONAL INSPECTION	SPEC NO: 05-03-0521 SPEC NO: 06-02-0520 INCLUDING LEAD SPREAD, STANDOFF AND COPLANARITY	30X MICROSCOPE 30X MICROSCOPE PROFILE PROJECTOR	EVERY LOT 1X PER DAY PER MACHINE	nP CHART X-BAR-R CHART
	QA LOT ACCEPTANCE	PACKAGE CRACK	SPEC NO: 06-02-0520	MIN 30X MICROSCOPE	EVERY LOT - 45 0/1	LOG
	100% VISION INSPECTION 100% VISION INSPECTION GATE		SPEC NO: 05-03-0527 P05-03-8082 SPEC NO: 06-02-0520 P05-03-8082	3X SCOPE MINIMUM OR AUTO VISION SYSTEM 3X SCOPE	SAMPLE SIZE: 125 0/1	LOG LOG
	PACK	PACKING & PREPARATION FOR DELIVERY	SPEC NO: 05-03-0601 05-03-7300			
	QA PACK BUYOFF	VISUAL INSPECTION	SPEC NO: 06-02-0528			
	SHIP TO LTC					

Revision A