

# **Cypress Semiconductor Qualification Report**

**QTP# 97151, Version 1.0  
December, 1997**

**16 Ld TSSOP Package  
Anam, Philippines Assembly**

PLASTIC PACKAGE/ASSEMBLY DESCRIPTION			
Package Outline, Type, or Name:	16 Ld TSSOP		
Mold Compound Name/Manufacturer:	Sumitomo 7351T		
Lead Frame material:	Copper		
Lead Finish, composition:	Solder Plated, 85%Sn, 15%Pb		
Die Attach Area Plating:	Silver		
Die Attach Method:	Epoxy	Die Attach Material:	Ablestik 84-1LMISR4
Wire Bond Method:	Thermosonic	Wire Material/Size:	Gold / 1.0 mil
JESD22-A112 Moisture Sensitivity Level	Level 1		
Assembly Line ID and Process ID:	Anam, Philippines (PHIL-M)		

**Note:** Please contact a Cypress Representative for other packages availability.

**RELIABILITY TESTS PERFORMED**

<b>Stress/Test</b>	<b>Test Condition (Temp/Bias)</b>	<b>Result P/F</b>
Temperature Cycle	MIL-STD-883C, Method 1010, Condition C, -65°C to 150°C Precondition: JESD22 Moisture Sensitivity Level 1 168 Hrs., 85°C/85%RH	P
High Accelerated Saturation Test	140°C/5.5V Precondition: JESD22 Moisture Sensitivity Level 1 168 Hrs., 85°C/85%RH	P
High Temperature Storage	165°C, no bias	P
Internal Visual	Cypress Spec 25-00017	P
External Visual	Cypress Spec 12-00102/12-00103	P
Physical Dimension	Cypress Spec. 25-00031	P
Solderability, Steam Aged	Cypress Spec. 25-00018	P
Die Shear	Cypress Spec 24-00004	P
Ball Shear	Cypress Spec 24-00018	P
Bond Pull	Cypress Spec 24-00002	P
Thermal Shock	Cypress Spec 25-00014	P
X-Ray	Cypress Spec 12-000149	P
Acoustic Microscopy Test		P

**RELIABILITY TEST DATA**

**QTP#: 97151**

DEVICE	ASSY-LOC	FABLOT#	ASSYLOT#	DURATION	S/S	REJ	FAIL MODE
<b>STRESS: HI-ACCEL SATURATION TEST (140C, 5.5V), PRECOND. 168 HRS 85C/85%RH</b>							
CY2308ZC	PHIL-M	3704497	349702279-1	128	48	0	
<b>STRESS: HIGH TEMPERATURE STORAGE (165C, NO BIAS)</b>							
CY2308ZC	PHIL-M	3704497	349702279-1	336	48	0	
CY2308ZC	PHIL-M	3704497	349702279-1	1000	48	0	
<b>STRESS: TC COND. C, -65 TO 150C, PRECOND. 168 HRS 85C/85%RH</b>							
CY2308ZC	PHIL-M	3704497	349702279-1	300	48	0	
CY2308ZC	PHIL-M	3704497	349702279-2	300	48	0	
CY2308ZC	PHIL-M	3704497	349702279-3	300	48	0	
<b>STRESS: THERMAL SHOCK, CONDITION B</b>							
CY2308ZC	PHIL-M	3704497	349702279-1	100	48	0	
CY2308ZC	PHIL-M	3704497	349702279-1	200	48	0	