

Cypress Semiconductor Qualification Report

**QTP# 97385, Version 1.0
December, 1997**

**56 Ld SSOP Package
Anam, Korea Assembly**

PLASTIC PACKAGE/ASSEMBLY DESCRIPTION			
Package Outline, Type, or Name:	56 Ld SSOP		
Mold Compound Name/Manufacturer:	Sumitomo EME-6300		
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, Korea (KOREA-L/A)		

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

RELIABILITY TESTS PERFORMED

Stress/Test	Test Condition (Temp/Bias)	Result P/F
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
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#: 97385

DEVICE	ASSY-LOC	FABLOT#	ASSYLOT#	DURATION	S/S	REJ	FAIL MODE
STRESS: HI-ACCEL SATURATION TEST (140C, 5.5V), PRECOND. 168 HRS 85C/85%RH							
CY2276APVC	KOREA-L	3705598	3705598.A	128	50	0	
STRESS: HIGH TEMPERATURE STORAGE (165C, NO BIAS)							
CY2276APVC	KOREA-L	3701143	619702200	556	46	0	
CY2276APVC	KOREA-L	3701143	619702200	1000	52	0	
STRESS: TC COND. C, -65 TO 150C, PRECOND. 168 HRS 85C/85%RH							
CY2276APVC	KOREA-L	3705598	3705598.A	300	50	0	
CY2276APVC	KOREA-L	3705598	3705598.A	1000	50	0	
CY2276APVC	KOREA-A	3713782	3713782.03	300	47	0	
CY2276APVC	KOREA-A	3713782	3713782.03	1000	47	0	
CY2276APVC	KOREA-L	3701143	619702200	300	50	0	
CY2276APVC	KOREA-L	3701143	619702200	1000	50	0	
STRESS: THERMAL SHOCK, CONDITION B							
CY2276APVC	KOREA-L	3701143	619702200	100	51	0	
CY2276APVC	KOREA-L	3701143	619702200	200	51	0	