

Process Change Notice #1208022

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PCN Date: 8/2/2012		Effective Date: 8/2/2012	
Title: C8051T620/621/626/627/320/321/322/323 data sheet update			
Originator: Pedro PachcaPedro Pachuca		Phone: 1.512.300.7199	Dept: EMS
Customer Contact: Kathy Hagggar		Phone: 1.512.532.5869	Dept: Inside Sales
PCN Type:			
<input checked="" type="checkbox"/> Datasheet <input type="checkbox"/> Foundry <input type="checkbox"/> Packing <input type="checkbox"/> Product Revision <input type="checkbox"/> Assembly <input type="checkbox"/> Labeling <input type="checkbox"/> Discontinuance <input type="checkbox"/> Test <input type="checkbox"/> Other			
Last Order Date: N/A			
PCN Details			
Description of Change: Data sheet has been updated to include C8051T626-B-GM and C8051T627-B-GM part numbers as well as electrical characteristics unique to these part numbers. The datasheet is available at www.silabs.com			
Reason for Change: USB family extension			
Impact on Form, Fit, Function, Quality, Reliability: There is no impact on form, fit, function, quality and reliability for the existing part numbers.			
Product Identification: C8051T626-B-GM and C8051T627-B-GM			
Last Date of Unchanged Product: 8/2/2012			
Qualification Samples: Available upon request. Please contact your local Silicon Laboratories sales representative to order samples. A list of Silicon Laboratories sales representatives may be found at www.silabs.com			
Customer Early Acceptance Sign Off: Customers may approve early PCN acceptance by completing the information below: Early Acceptance: Date: _____ Name: _____ Company: _____ Email your early Acceptance approval to: katherine.hagggar@silabs.com			
Qualification Data: See Qualification Report below.			

Qualification Report

C8051T62x-B-GM Qualification Report



W7101F1 Product Qualification Plan and Report Rev. D

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C8051T62x-B-GM, Rev B, G5MC Fabrication, ASECL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A - Accelerated Environment Stress Tests							
HAST	JA110	3 lots, N=>25	Q29385	0/78	1		Pass
	130°C, 85%RH		Q29331	0/80	1	3 lots	
	96 hours		Q29336	0/80	1	0/238	
Temp Cycle	JA104	3 lots, N=>25	Q29387	0/77	1		Pass
	Cond C: -65°C to 150°C		Q29391	0/77	1	3 lots	
	500 cycles		Q29395	0/77	1	0/231	
HTSL	JA103	3 lots, N=>25	Q29388	0/77	1		Pass
	150°C, 1000hr		Q29392	0/77	1	3 lots	
			Q29396	0/77	1	0/231	
Test Group B - Accelerated Lifetime Simulation Tests							
HTOL	JA108	3 lots, N=>77	Q27686	0/82			Pass
	125°C, Dynamic		Q27166	0/80		3 lots	
			Q26267	0/80			
	Vcc=5.25V, 1000 hours		Q32214	0/80		0/322	
LTOL	JA108	1 lot, N=>32	Q25468	0/40		1 lots	Pass
	-10°C, Dynamic					0/40	
	Vcc=5.0V, 1000 hours						
ELFR	JA108	3 lots, N=>500	Q27897	0/520			Pass
	125°C, Dynamic		Q26510	0/502			
			Q27490	0/520		4 lots	
	Vcc=5.25V, 48 hours		Q32213	0/520		0/2062	
Data Retention Bake	JESD22-A117		Q32084	0/44		2 lots	Pass
	150°C, 1000hr		Q32085	0/44		0/88	
Test Group E - Electrical Verification							
ESD-HBM	JA114	1 lot, N=>3	Q32183		2KV		Pass
ESD-MM	JA115	1 lot, N=>3	Q32032		225V		Pass
ESD-CDM	JC101	1 lot, N=>3	Q32030		1.5KV		Pass
Latch Up	JESD78	1 lot, N=>6	Q32033		85°C		Pass
	±200mA		Q32034		±5°C		
	Overvoltage = 3.6V						

Notes:

1. Parts were Preconditioned at MSL 1/ 260°C

This report applies to the following part numbers:	
C8051T626-B-GM	C8051T627-B-GM