

Product/ Process Change Notification								
1. PCN No.:	QPCN12012							
2. Subject:	TS34063 series wafer re-layout							
3. To:	All customers involved							
4. Issued by:	Owen Wang							
5. Issue date:	12-Jul-2012							
6. Proposed first ship date for change:	12-Oct-2012							
7. Affected Product Identification								
TS34063 series (part no.: TS34063CD C3, TS34063CS RL)								
8. Change Description : (OLD Vs. NEW Cor	mparison)							
Old:	New:							
➤ Die size: 1.8 mm x 1.7 mm	➤ Die size: 0.93 mm x 0.73 mm							
> Old layout	New layout							
9. Reason for Change:								
Die optimization.								
10. Anticipated Impact: (form, fit, function, qu	ality or reliability)							
1. Product outline: No char								
	changed							
· ·	see Appendix A – meets actual datasheet							
	see Appendix B – pass reliability test							
5. Data sheet: No char	•							
6. Packing code (order code): No change								
11. Qualification plan/result:								
Refer to PPAP Available on	demand							
Comparison report Available on								
12. Sample availability Date:	Please contact your regional Taiwan							
12. Sample availability Date.	Semiconductor Sales office							
13. Tentative implementation date:	12-Jul-2012							
14. Remarks								
The device circuit of new die is the same as old	d die. It's just re-layout for smaller die size.							
,								
15. Customer feedback required latest:	12-Aug-2012							
(should we receive no feedback; the change								
will be deemed as accepted!)	Ouguer Chan							
16. Approved by:	Quayer Chen							



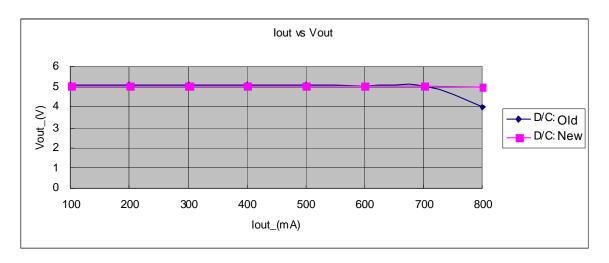
Product/ Process Change Notification Customer Approval Form_QPCN12012

	(Please tick	the field what is valid for y	/OU!)
We agree with	this proposed change	e and its schedule.	
☐ We have objec	tions		
We need more			
We need samp	le:		
Company:			
Name:			
Address:			
Signature:		Date:	



Product/ Process Change Notification Appendix

A Performance test:



B Electrical Functions Test:

ltem	lcc1	lcc2	lcc3	Vref	lchg	ldchg	Vce-sat	Vipk	Fosc	lc-off	lccr
condition	Vcc=5V, Ct=1nF, pin7=Vcc, Vpin5=2V	Vcc=40V, Ct=1nF, pin7=Vcc, Vpin5=2V	Vcc=30V, Ct=1nF, pin7=Vcc, Vpin5=2V	Vcc=5V	Vcc=5V, Vpin3=0V, pin7=Vcc	Vcc=5V, Vpin3=2V, pin7=Vcc	Vcc=5V, Isw=1A, pin1, 8 connected, pin7=Vcc, Vpin3 & 5=0V	Vcc=5V, Vpin5=0V	Vcc=5V, Ct=1nF, Vpin5=0V	Vcc=5V, Vpin5=2V, Pin1 to Pin2=40V	Vcc=5V, Ct=1nF, pin7=Vcc, Vpin5=2V
Spec-min	1	1	1	1.228	25	150	-	255	24	-	-
Spec-max	4.75	4.75	4.75	1.273	41	248	1.176	345	42	0.5	4.75
unit	mA	mA	mA	V	uA	uA	V	mV	Khz	uA	mA
MIN	2.34	2.83	2.70	1.230	35.6	188.4	0.644	260	37.5	0.02	2.83
MAX	2.82	4.31	4.10	1.269	41.0	241.6	1.188	340	43.8	1.04	4.41
AVG	2.435	2.952	2.813	1.256	-38.535	222.881	1.069	317.549	40.778	0.024	2.957
STDEV	0.023	0.039	0.034	0.005	0.546	4.221	0.023	3.994	0.616	0.057	0.039



Product/ Process Change Notification Appendix

C Qualification summary:

The new one is better than old one in Vout regulation per application preference test.

	Qualification Test Condition		Test Result						
Test Item*			EVI		SAM*		F/T		
restream			Sample size	Rej / S.S	Sample size	Rej / S.S	Sample size	Rej / S.S	conclusion
Before Test		180	0/180	45	0/45	180	0/180	PASS	
MSL3	TCT:-65°C~+150°C, 5cycles Baking:125°C, 24 hrs Moisture Soak: 30°C/60 %RH,192hrs IR Reflow Tp.: 260 -5/+0°C,3times		180	0/180	45	0/45	180	0/180	PASS
тнт	85℃/85%RH	168hrs	45	0/45			45	0/45	PASS
		500hrs	45	0/45			45	0/45	PASS
		1000 hrs	45	0/45			45	0/45	PASS
тст	-65°C−+150°C	300cycles	45	0/45			45	0/45	PASS
		500cycles	45	0/45			45	0/45	PASS
PCT 121°C/	121 °C /100% PU /26	*** / 4 00 PM / 00 FM		0/45	N/A		45	0/45	PASS
	121°C/100%RH/205Kpa,168hrs		45	0/45			45 0/45		PASS
HTST	150°C	168hrs	45	0/45			45	0/45	PASS
		500hrs	45	0/45			45	0/45	PASS
		1000 hrs	45	0/45			45	0/45	PASS