



Advance & Final

CUSTOMER PRODUCT-/ PROCESS CHANGE NOTIFICATION

Reactions to this notifications are to be addressed to your local Philips sales representative or quality contact.

CPCN Number: 200609019	CPCN Issue Date: Sep 22 2006
Author: Marsch, Detlev in Hamburg	Issued by: Gorlt, Ingobert in Hamburg
Discretes Application Area: General Applications Change Affects a Whole Prod/Proc/Pkg Family? Yes: sensor packages SOT453, SOT477, SOT637, SOT195	
IC Application Area: Automotive	
Product Types/12ncs Affected: Attached	
Change Category: ASSEMBLY/SITE/PACKAGE/MATERIAL Change Description: To approve Hitachi Cable as supplier of leadframes used for sensor packages SOT435, SOT477, SOT637, SOT195. The source material will be unchanged. There is no change to the external lead finish.	
Reason for Change: Leadframe supplier Possehl have advised the need to relocate their stamping and plating operation within China during 2006. This will cause a risk in supply for leadframes.	
Properties of Old vs. Changed Product: No change in apperance or electrical behavior of the product.	Data Sheet Revision: No
Disposition of Old Products: Existing inventory will be shipped until depleted	
Identification of Changed Product: No identification will be made on the product, but Philips manufacturing records will provide traceability of materials used in their construction.	
Self Qualification Start Date: Oct 2006 Self Qualification Complete Date: Jan 2007 Estimated Date for Delivery of Changed Product: Mar 01 2007 Sample Availability: see attached list	
Remarks:	
Date for Customer Feedback: Oct 16 2006 (Note: If no comments are received by the date indicated, this will be taken as your agreement to change.)	
Self Qualification Report Attachment: Attached	

Approved by:	Name:	Job Title:	Date:
	Ingobert Gorlt (by electronic signature REF#840826986)	Quality Management Sensor Devices	Sep 19 2006
	Michel Van Crombrugge (by electronic signature REF#899283688)	Director Product Sector Sensors	Sep 22 2006
	Wolfgang Müller (by electronic signature REF#949480003)	IPMM	Sep 19 2006

An approved electronic or hardcopy version of this Change Notification has been filed by the publishing Business Unit or Business Line/Orgnaization mentioned at the top of this document.



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Product Types 12NC Affected

12NC	12NC (New)	Type Number	Type Number (New)	Philips Package Code	Package Name
934050780115		KMI15/1		SOT453M	
934050790115		KMI15/2		SOT453M	
934057132115		KMI15/2B		SOT453M	
934050800115		KMI15/4		SOT453M	
934045370115		OH181		SOT453M	
934055911115		OH181/E		SOT453M	
934059187115		OH181/ES		SOT453M	
934057846115		OH181/ET		SOT453M	
934057841115		OH181/T		SOT453M	
934050820115		OH182		SOT453M	
934055912115		OH182/E		SOT453M	
934059189115		OH182/ES		SOT453M	
934045380115		OH191		SOT453M	
934055913115		OH191/E		SOT453M	
934060152115		OH191/E/P		SOT453M	
934057845115		OH191/ET		SOT453M	
934055886115		OH191/F		SOT453M	
934057843115		OH191/T		SOT453M	
934055424115		OH201		SOT453N	
934059191115		OH201/S		SOT453N	
934055425115		OH202		SOT453N	
934055426115		OH203		SOT453N	
934056510115		KMA200		SOT637B	
933698470112		KMZ10B		SOT195	
933698480112		KMZ10C		SOT195	
934020740112		OH104		SOT195	
934055170115		OH186		SOT477M	
934056680115		OH221		SOT477N	
934056681115		OH222		SOT477N	
934058476115		OH223/M		SOT477N	
934055232115		KMI16/1		SOT477M	
934056231115		KMI18/2		SOT477M	

PROPOSED RELIABILITY QUALIFICATION PLAN
2nd SOURCE LEADFRAME SOT453M/N, SOT477M/N, SOT637B

Test No.	Test Description	Conditions	Inspection Requirements			Notes	REMARKS
			n	c	Batch#		
1	Temperature Cycling (TC)	1000 cycles, Ta = -40°C to 150°C	77	0	1,2,3,4	1,2,3,4,5	
2	Operating Life	1000h, Ta = 150°C, Vcc= (type depending)	77	0	1,2,3,4	1,2,3,4,5	
3	unbiased Hast	Ta = 130°C, RH = 85%, t = 96h	77	0	1,2,3,4	1,2,3,4,5	
4	Bias Tropical (BT)	t = 1000h, Ta = 85°C, RH = 85%, Vcc = (type depending)	77	0	1,2,3,4	1,2,3,4,5	
5	Thermal Shock	100 cycles liquid to liquid, T1 = -40°C, T2 = 150°C	30	0	1,2,3,4	1,2,3,4,5	proceeded in HH
6	Soldering Heat (SH)	Ta = 300°C, t = 10sec	15	0	1,2,3,4	1,2,3,4,5	
7	Solderability after 8h BT (only for tin plated types)	Ta = 245°C, t = 5 sec	15	0	2,4	1,2,4,5	
8	Physical Dimensions on raw leadframes	Leadframe dimensions, including measurements on silver plating (size, thickness)	30	0	1,2,3,4,5,6,7,8,9,10	1,2,4,5	
9	Lead integrity	Lead pull test on terminals F=10N for 30sLead pull test on all interconnects at same time F=20N for 30s (clamped on MR & ASIC package) acc IEC60068-2-21	15	0	1,2,3	1,2,3,4,5	
10	Lead integrity	Measure real pull out force for terminals	15	0	1,2,3	1,2,4,5	
11	Wire bond pull test	Minimum 30 Bond connections	10	0	1,2,3,4,5,6,7,8,9,10	1,2,4,5	
12	Wire bond pull test after TCT	Minimum 30 Bond connections >3g	10	0	1,2,3,4	1,2,4,5	

Notes:

- Inspection requirements
n = sample size
c = product release criterion for complete failures
- Visual Inspection of all samples
- Tested before and after at room temperature.
- With completion of batch 1,2,3 the new supplier is considered to be released and the 3 types are ready for production.
- All other types are considered as released, when note 4 is passed and test #8 & #11 of the individual type is passed.

Batch#	Type	Leadframe
1	OH191/E	SOT453M
2	KMI18/2	SOT477M
3	OH181/E	SOT453M
4	KMA200	SOT637B
5	OH404	SOT453P
6	OH423	SOT477P
7	KMA199	SOT880
8	KMZ10C	SOT195
9	OH201	SOT453N
10	OH223M	SOT477N

PHILIPS SEMICONDUCTORS
Product Discontinuation Notice DN47
June 30, 2002

SEE DN47 NOTICE LETTER FOR APPLICABLE TERMS, CONDITIONS AND CODE DEFINITIONS FOR THESE DISCONTINUED PRODUCTS.

REFER TO PHILIPS WEB-SITE "<http://www.semiconductors.philips.com/eol>" FOR ADDED INFORMATION.

TYPE CODE:

SOURCE CODE:

AVAILABILITY CODE:

T = Type number fully withd C = Customer specific product

M = Multiple source

N = Packing option ONLY w/ product

S = Sole source product

1 = Non-availability. No last time buy possible

2 = Limited availability (check with your usual sales contact)

3 = Standard availability

Philips Typenumber	Philips NA part number	Part Description	Philips 12NC	Discont. Type Code	Source Code	Availability Code	Last time buy date	Last time ship date	Replacement part	Comments
257	OF4601	100V 2 A FAST RECOVERY RECTIFIER	934056556113	T	C	1	30-Jun-02	30-Jun-02	BYM26E	Parent type is available. Not Manufacturable.
258	OF4602	150V 2 A FAST RECOVERY RECTIFIER	934056557113	T	C	1	30-Jun-02	30-Jun-02	BYV27-150	Parent type is available. Not Manufacturable.
259	OF4603	200V 2 A FAST RECOVERY RECTIFIER	934056558113	T	C	1	30-Jun-02	30-Jun-02	BYV27-200	Parent type is available. Not Manufacturable.
260	OF4604	600V 3 A FAST RECOVERY RECTIFIER	934056559133	T	C	1	30-Jun-02	30-Jun-02	BYM36C	Parent type is available. Not Manufacturable.
261	OH13	TEMPERATURE SENSORS	934055041235	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
262	OH13/5	TEMPERATURE SENSORS	934053380235	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
263	OH13/6	TEMPERATURE SENSORS	934053390235	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
264	OH13/7	TEMPERATURE SENSORS	934053400235	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
265	OH142	TEMPERATURE SENSORS	934018910112	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
266	OH144	TEMPERATURE SENSORS	934020460215	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
267	OH181/A	MAGNET/SYSTEM/SPEED	934053260115	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
268	OH182/D	MAGNET/SYSTEM/SPEED	934053280115	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
269	OH191/D	MAGNET/SYSTEM/SPEED	934053290115	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
270	OH20	TEMPERATURE SENSORS	934055040116	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
271	OH20/5	TEMPERATURE SENSORS	934053350116	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.
272	OH20/6	TEMPERATURE SENSORS	934053360116	T	M	1	30-Jun-02	30-Jun-02	Non-noted	Non-manufacturable. Consult Marketing.