BOSCH AUTOMOTIVE	PCN Questionnaire	AE/PUR-E3, AE/QMS PCN16396

Formular F-F0219, V: 1.0 (01.07.2008), Responsible AE/QMS-P-Gu

Identification of the PCN

Suppliers company name	ON Semiconductor
Subject (PCN short name)	IC D2PAK 3 AND 5 Lead Change To Single Gage Thickness Heat Sink
Supplier's identification number	16396
Date of issue	23-Apr-2010

Supplier's contact person for this PCN

Name	Jaromir Ftorek
Phone number	+421 33 790 2475
email address	jaromir.ftorek@onsemi.com

Product / Process – Changes

Detailed description of change(s)	
Comparison: unchanged vs changed component. **At least all changes within the device questionnaire must be described** (attach additional information)	before change Current heat sink has a Thickness of .050 inch (1.265 mm). after change Future heat sink will have a thickness of .020 inch (.508 mm). (No other dimensional changes are being made)
Reference parts (if applicable)	not applicable
Reasons for change(s)	continuous improvement
Benefit for Bosch (quality, cost,)	continuous improvement
Has the change any impact on form, fit, function, quality, reliability or processability?	Yes
Any other PCNs planned for the products /product family within next 2 years?	Not known
Additional comments	For affected 8905 parts will be build bridge inventory for Bosch or implemetation postponed to cover period till Bosch release date. In case of specific questions pls conatct Mr. Jaromir Ftorek at email: jaromir.ftorek@onsemi.com

PCN Scheduling & Data

Supplier's qualification finished?	☐ yes -> a) ☑ no -> specify date:	1-Jun-10
Qualification samples available?	☐ yes ☑ no -> specify date:	1-May-10
Date of planned production change	12-Jul-2010	
Last time buy (LTB)	23-Apr-2011	
Last shipment date (LSD)	23-May-2011	
Qualification done according AEC?	Yes	

a) If your qualification is finished, please attach qualification report

	QUALIFICATION PLAN: Qualification Vehicles chosen for this qualification: MC33167 5 Ld D2 Pak NCV4275 5 Ld D2 Pak NCV317B 3 Ld D2 Pak Testing to be performed: HTOL High Temp Op Life Ta = 125 C 1000 Hr 3 Lots Preconditioning for MSL-1 (PC) PC – HAST Highly Accel Stress Testing 96 Hrs 3 Lots PC – Temp Cycle -65 to +150C 1000 cyc 3 Lots PC – Auto Clave 131C – 85%RH – 96 Hrs 3 Lots HTSL - High Temp Storage Life Ta=150C 1008 Hrs 3 Lots SD – Solderability DPA per AEC-Q100 Automotive specification Full temperature electrical characterization

Product – Identification

Component function	Standard and LDO Regulators – Switching Regulators
Component family name	Standard and LDO Regulators – Switching Regulators
Mode of change-over	BOM/design change

How can the new / changed products be identified at Bosch?	cut-off datecode will be provided upon Bosch release, identification with PCN # will be done for first 3 shipments from new product as per standard Bosch requirements

Remarks:

For PCNs where we have to notify our customers we have to explain the change(s). Please specify explicitly if data within this PCN should not be shown to our customers.
This form sheet should be send back as Excel-file, not as PDF only!

Product – part numbers

All affected Bosch part numbers (890…) have to be listed, even if they have not been ordered by Bosch or shipped to Bosch within the last years. Do not use spaces or dots within Bosch part numbers.

#	**Bosch part number (890….)**	**supplier's device name or part number**
1	8905506899	LM317BD2TG
2	8905960411	LM317BD2T
3	8905501690	NCV4275DSR4G
4	8905958764	NCV7812BD2TR4(G)
5	F01U040493	LM2575D2T-5R4G