



Title of Change:	FAN108M6X Metal masks change from PC0223ASFF to PC0223DSFF to shift 6 parameters design target to meet customer applications																																		
Proposed First Ship date:	13 June 2019 or earlier upon customer approval																																		
Contact Information:	Contact your local ON Semiconductor Sales Office or <Thomas.chen@onsemi.com>																																		
Samples:	<i>Samples is qualified and available</i> Contact your local ON Semiconductor Sales Office or <PCN.Samples@onsemi.com> Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change.																																		
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. IPCNs are typically issued 30 days prior to the issuance of the Final Change Notice (FPCN). An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com>																																		
Change Part Identification:	Affected products will be identified with IC top marking																																		
Change Category:	☒ Wafer Fab Change ☒ Assembly Change ☒ Test Change ☐ Other _____																																		
Change Sub-Category(s):	☐ Manufacturing Site Addition ☐ Material Change ☒ Datasheet/Product Doc change ☐ Manufacturing Site Transfer ☒ Product specific change ☒ Shipping/Packaging/Marking ☐ Manufacturing Process Change ☐ Other: _____																																		
Sites Affected:	ON Semiconductor Sites: ON S. Portland, Maine	External Foundry/Subcon Sites: None																																	
Description and Purpose: FAN108M6X Metal masks change (Metal 1, Via 1, Metal 2, Via 2, Metal top) from PC0223ASFF to PC0223DSFF to shift 6 parameters design target (Described in Electrical Characteristic) to meet customer applications and no change of assembly material. 6 electrical parameters design target change to meet customer applications																																			
<table border="1"> <thead> <tr> <th></th> <th>FAN108M6X (PC0223ASFF)</th> <th>FAN108M6X (PC0223DSFF)</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">ELECTRICAL CHARACTERISTICS</td> </tr> <tr> <td>High Threshold Voltage of Current Sense</td> <td>0.175</td> <td>0.225</td> <td>V</td> </tr> <tr> <td>Leading-Edge Blanking Time</td> <td>220</td> <td>340</td> <td>ns</td> </tr> <tr> <td>Cable Drop Compensation Voltage</td> <td>160</td> <td>155</td> <td>mV</td> </tr> <tr> <td>VS Sampling Blanking Time L</td> <td>1.3</td> <td>1.9</td> <td>us</td> </tr> <tr> <td>VS Sampling Blanking Time H</td> <td>1.8</td> <td>2.3</td> <td>us</td> </tr> <tr> <td>Hi-Z Mode Enable Time</td> <td>67</td> <td>100</td> <td>us</td> </tr> </tbody> </table>					FAN108M6X (PC0223ASFF)	FAN108M6X (PC0223DSFF)	Unit	ELECTRICAL CHARACTERISTICS				High Threshold Voltage of Current Sense	0.175	0.225	V	Leading-Edge Blanking Time	220	340	ns	Cable Drop Compensation Voltage	160	155	mV	VS Sampling Blanking Time L	1.3	1.9	us	VS Sampling Blanking Time H	1.8	2.3	us	Hi-Z Mode Enable Time	67	100	us
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There are no product material changes as a result of this change																																			



Affected products will be identified with IC top marking

	From	To
Product marking change	&E&E&Y &O108A&C &.&O&E&V UNK UNK	&E&E&Y &O1084&C &.&O&E&V UNK UNK

Qualification Plan:

QV: FAN108M6X

Package: SOT23-6

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta=125C, 100% max rated Vcc	1008 hrs
TC	JESD22-A104	Ta=-65C to +150C	500 cyc
HAST	JESD22-A110	100C, 85% RH, 18.8psig, bias	264 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260C	3 X reflows

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
FAN108M6X	FAN108M6X