



<b>Title of Change:</b>	Specification Clarification/Update for FAN73912 and FAN73912A. There is no change in form, fit or function.
<b>Effective date:</b>	22 Jan 2021
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Scott.Brow@onsemi.com">Scott.Brow@onsemi.com</a>
<b>Type of notification:</b>	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.
<b>Change Category:</b>	Change Category - Other
<b>Change Sub-Category(s):</b>	Product specific change

**Sites Affected:**

ON Semiconductor Sites	External Foundry/Subcon Sites
None	None

**Description and Purpose:**

ON Semiconductor would like to notify customers of the following datasheet clarifications/updates associated with the datasheets for the devices listed in this Product Bulletin. There is no change in form, fit or function for the products. And there is no change in the actual testing of the product associated with these clarifications. All changes are noted and then highlighted in yellow below.

Change 1: FAN73912MX and FAN73912AMX

Update all references  $T_A = 25^\circ\text{C}$  and replace with  $T_J = 25^\circ\text{C}$  as shown here:

**MAXIMUM RATINGS TABLE**

$T_J = 25^\circ\text{C}$  unless otherwise Specified

**RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Max	Unit
$T_J$	Junction Temperature	-40	125	$^\circ\text{C}$

FAN73912MX Only:

**STATIC ELECTRICAL CHARACTERISTICS**

$T_A = 25^\circ\text{C}$  unless otherwise specified

Change 2: FAN73912MX and FAN73912AMX

Adding Specification for parameters relative to COM.

**MAXIMUM RATINGS TABLE**

Symbol	Parameter	Min	Max	Unit
$V_{DD}$	Logic Supply Voltage	COM - 0.3 $V_{SS} - 0.3$	COM + 25 $V_{SS} + 25$	V
$V_{IN}$	Logic Input Voltage (HIN, LIN and SD)	COM - 0.3 $V_{SS} + V_{DD} - 25.3$	COM + 25 $V_{DD} + 0.3$	V

**RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Max	Unit
$V_{DD}$	Logic Supply Voltage	COM - 0.3 $V_{SS} - 0.3$	COM + 20 $V_{SS} + 25$	V
$V_{IN}$	Logic Input Voltage (HIN, LIN and SD)	COM - 0.3 $V_{SS} + V_{DD} - 25.3$	COM + 20 $V_{DD} + 0.3$	V



Change 3: FAN73912MX ONLY

Adding additional specifications lines for -40°C and +125°C performance.

#### STATIC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$I_{LK}$	Offset Supply Leakage Current	VB=VS=1200V (T <sub>J</sub> = 25°C)			50	µA
		VB=VS=1200V (T <sub>J</sub> = 125°C) (Note 8)			100	
		VB=VS=1200V (T <sub>J</sub> = -40°C) (Note 8)			100	

Note 8: Guaranteed but not tested

#### List of Affected Standard 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](#).

FAN73912MX

FAN73912AMX



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## Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FAN73912MX				