



<b>Title of Change:</b>	CAx4016 datasheet clarification
<b>Effective date:</b>	2 February 2017
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <Shannon.riggs@onsemi.com>
<b>Type of notification:</b>	ON Semiconductor will consider this change accepted.
<b>Change category:</b>	<input type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other: <u>Documentation clarification</u>

<b>Change Sub-Category(s):</b>		<input checked="" type="checkbox"/> Datasheet/Product Doc change
<input type="checkbox"/> Manufacturing Site Change/Addition	<input type="checkbox"/> Material Change	<input type="checkbox"/> Shipping/Packaging/Marking
<input type="checkbox"/> Manufacturing Process Change	<input type="checkbox"/> Product specific change	<input type="checkbox"/> Other: _____

<b>Sites Affected:</b>		<input type="checkbox"/> All site(s)	<input checked="" type="checkbox"/> not applicable	<input type="checkbox"/> ON Semiconductor site(s):	<input type="checkbox"/> External Foundry/Subcon site(s)
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**Description and Purpose:**

Additional product characterization revealed opportunities for improved product specification documentation in the datasheet. There are NO CHANGES to product form/fit/function; physical product before and after this bulletin is identical. The intent of this bulletin is to detail the additional clarifications which have been made on the datasheet for customer convenience.

1. On page 2, Table 1, **LEDn Voltage** was split into a channel off and channel on absolute maximum rating.

a. Before change:

LEDn voltage	6	V
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b. After change:

LEDn voltage, channel off	6	V
LEDn voltage, channel on	2.5	V

2. On page 2, Table 2, **Voltage applied to LED1-LED16** was split into a channel off and channel on recommended operating condition.

a. Before change:

Voltage applied to LED1 to LED16	0.4 to 5.5	V
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b. After change:

Voltage applied to LED1 to LED16, channel off	0.4 to 5.5	V
Voltage applied to LED1 to LED16, channel on	0.4 to 2.0	V

3. On page 4, Table 4, **LED1 Propagation delay (T<sub>ld</sub>)** was originally listed with a single specification to cover both ON and OFF state values. This is inaccurate and has been corrected in CAT4016/D, rev 6.

a. Before change:

**LEDn**

t <sub>ld</sub>	LED1 Propagation delay	LATCH to LED1 off/on		40	300	ns
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b. After change:

**LEDn**

t <sub>ld</sub>	LED1 Propagation delay	LATCH to LED1 on LATCH to LED1 off		40 -	300 1000	ns
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4. On page 4, Table 4, **BLANK Propagation delay (T<sub>bd</sub>)** was originally listed with a single specification to cover both ON and OFF state values. This is inaccurate and has been corrected in CAT4016/D, rev 6.

a. Before change:

t <sub>bd</sub>	BLANK Propagation delay	BLANK to LED(n) off/on		60	300	ns
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b. After change:

t <sub>bd</sub>	BLANK Propagation delay	BLANK to LED(n) on BLANK to LED(n) off		60 -	300 800	ns
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No other documentation changes have been made, and there is NO CHANGE to existing product form/fit/function.



**List of affected Standard Parts:**

CAT4016HV6-GT2  
CAT4016HV6-T2  
CAT4016W-T1  
CAT4016Y-T2