



Premstätten, April 9, 2020

Change Notification CN16-2020 (VCSEL supplier change)

Description and Purpose:

The purpose of this change notice is to inform prior recipients of TMD2635 device samples regarding the VCSEL supplier change from HLJ to Truelight.

Change Summary:

	Current VCSEL	New VCSEL
VCSEL Type	940nm IR VCSEL	940nm IR VCSEL
VCSEL supplier	HLJ	Truelight

Benefit of this change:

- Improved cross-talk performance

Affected Products:

- TMD26353
- TMD26353M

Qualification Plan:

TMD2635 with Truelight VCSEL is fully qualified



Datasheet update

Parameter	HLJ VCSEL	TrueLight VCSEL
VCSEL FOI (note 1)	$\pm 14^\circ$	$\pm 7^\circ$
System level crosstalk	1x	0.6x
Proximity absolute response (near photodiode) (note 2)	404 counts	389 counts
Proximity absolute response (far photodiode) (note 2)	370 counts	333 counts
TEST9 register value (note 3)	0x0D	0x07
REVID2 register value (note 4)	0x00	0x01 or 0x0E

Notes:

1. Packaged FOI @ FWHM
2. Refer to datasheet Figure 8, Figure 9 for measurement conditions
3. TEST9 (address = 0xF9) sets the thermal drift profile
4. REVID2 (address = 0xA6) can be used to electrically discriminate between the two variants

Implementation Date:

This change is effective immediately. Device samples are available and new orders can now be placed.

Reinhard Rogy

Director Operations AOS