

### Applications

- 11.3Gbps EML Driver for Optical Systems

### Product Features

- 11.3Gbps EML Driver
- Differential Input/ Differential Output
- Power dissipation: 0.65 W @ 2.5 Vpp
- Adjustable Crossing: 35 – 80 %
- Maximum DC Output Offset: 1.2 V
- Output Swing: 3 Vpp SE; 6 Vpp Diff
- Rise/Fall Time: <25 ps
- Package Dimensions: 4.0 x 4.0 x 0.85 mm

### General Description

The TGA4195-SM is an 11.3 Gbps EML driver with power consumption of 0.65 W @ 2.5 Vpp single-ended (5 Vpp differential) output with rise and fall time of less than 25 ps.

The TGA4195-SM can be run with either a single-ended or differential input as well as single-ended or differential output. This part can be run with either DC or AC coupling on the output. DC coupling requires 5 V on VD2. AC coupling can be run with 3.3 V on VD2.

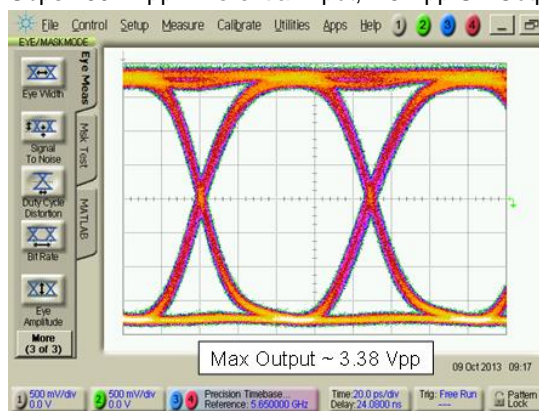
The TGA4195-SM is lead-free and RoHS compliant. Evaluation boards are available upon request.



24-L 4x4 mm QFN package

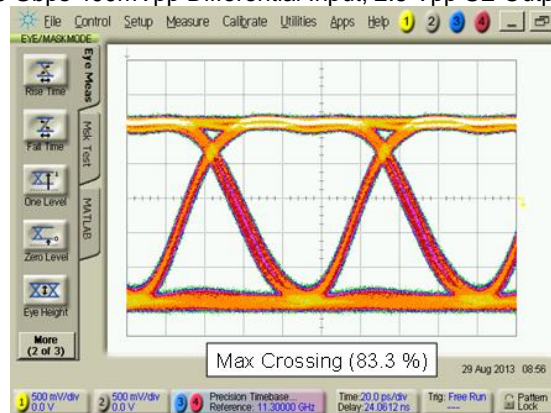
### Eye Diagram

VD1 = VD2 = 3.3 V, ID1 = 132 mA, ID2 = 122 mA, 25 °C  
11.3 Gbps 400mVpp Differential Input, 2.5 Vpp SE Output



### Eye Diagram

VD1 = VD2 = 3.3 V, ID1 = 105 mA, ID2 = 85 mA, 25 °C  
11.3 Gbps 400mVpp Differential Input, 2.5 Vpp SE Output



### Ordering Information

Part No.	ECCN	Description
TGA4195-SM	5A991.b	11.3Gbps EML Driver

Standard T/R = 1000 pieces on a 7" reel