

## Product Overview

### MC100EL11: Clock / Data Fanout Buffer, 1:2 Differential, ECL, 5.0 V

For complete documentation, see the data sheet.

The MC10EL/100EL11 is a differential 1:2 fanout buffer. The device is functionally similar to the E111 device but with higher performance capabilities. Having within-device skews and output transition times significantly improved over the E111, the EL11 is ideally suited for those applications which require the ultimate in AC performance.

The differential inputs of the EL11 employ clamping circuitry to maintain stability under open input conditions. If the inputs are left open (pulled to  $V_{EE}$ ) the Q outputs will go LOW.

The 100 Series contains temperature compensation.

### Features

- 265ps Propagation Delay
- 5ps Skew Between Outputs
- ESD Protection: > 1 KV HBM, > 100 V MM
- PECL Mode Operating Range:  $V_{CC}$  = 4.2 V to 5.7 with  $V_{EE}$  = 0 V
- NECL Mode Operating Range:  $V_{CC}$  = 0 V with  $V_{EE}$  = -4.2 V to -5.7 V
- Internal Input Pulldown Resistors
- Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test
- Moisture Sensitivity Level 1  
For Additional Information, see Application Note AND8003/D
- Flammability Rating: UL-94 code V-0 @ 1/8", Oxygen Index 28 to 34
- Transistor Count = 44 devices

For more features, see the data sheet

### Part Electrical Specifications

Product	Compliance	Status	Type	Channels	Input / Output Ratio	Input Level	Output Level	$V_{CC}$ Typ (V)	$t_{jitter}^{RMS}$ Typ (ps)	$t_{skew}^{(o)}$ Max (ps)	$t_{pd}$ Typ (ns)	$t_r$ & $t_f$ Max (ps)	$f_{max,Clock}$ Typ (MHz)	$f_{max,Data}$ Typ (Mbps)	Package Type
MC100EL11DG	Pb-free	Active	Buffer	1	1:2	ECL	ECL	5	0.6	20	0.265	350	1500		SOIC-8
MC100EL11DR2G	Pb-free	Active	Buffer	1	1:2	ECL	ECL	5	0.6	20	0.265	350	1500		SOIC-8

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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