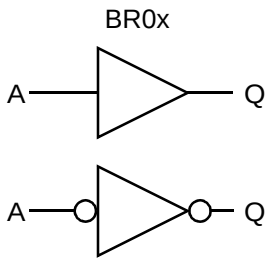
Description

BR0x is a family of non-inverting bus receivers with a single output to be used as the output of tristate busses.

Logic Symbol



Truth Table

A	Q
L	L
H	H

HDL Syntax

Verilog ..... BR0x *inst_name* (Q, A);

VHDL..... *inst_name*: BR0x port map (Q, A);

Pin Loading

Pin Name	Equivalent Loads		
	BR02	BR04	BR06
A	1.0	2.1	2.1

Size And Power Characteristics

Cell	Equivalent Gates	Power Characteristics[a]	
		Static I_{DD} (T_J = 85°C) (nA)	EQL_{pd} (Eq-load)
BR02	2.0	TBD	3.8
BR04	3.0	TBD	7.6
BR06	4.0	TBD	10.8

a. See page 2-15 for power equation.

AMI5HG 0.5 micron CMOS Gate Array

Propagation Delays (ns)

Conditions: T_J = 25°C, V_{DD} = 5.0V, Typical Process

BR02	**Number of Equivalent Loads**		**1**	**8**	**15**	**22**	**30 (max)**
	From: Any Input To: Q	t_{PLH} t_{PHL}	0.22 0.23	0.32 0.35	0.43 0.44	0.52 0.53	0.63 0.62
BR04	**Number of Equivalent Loads**		**1**	**14**	**28**	**42**	**56 (max)**
	From: Any Input To: Q	t_{PLH} t_{PHL}	0.21 0.21	0.31 0.33	0.41 0.46	0.50 0.56	0.59 0.64
BR06	**Number of Equivalent Loads**		**1**	**21**	**42**	**62**	**83 (max)**
	From: Any Input To: Q	t_{PLH} t_{PHL}	0.24 0.25	0.35 0.36	0.44 0.47	0.53 0.58	0.62 0.70

Delay will vary with input conditions. See page 2-17 for interconnect estimates.