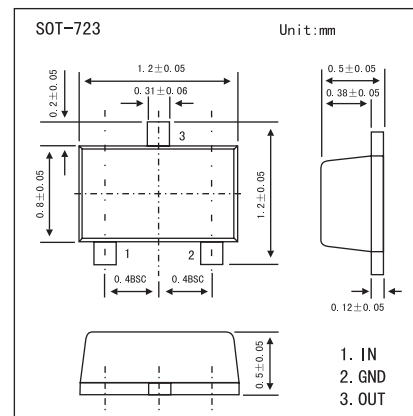


Digital Transistors

LTA014EMT2L

■ Features

- PNP Epitaxial Planar Silicon Transistor (Resistor Built-In Typ.)
- Built-In Bias Resistors Enable The Configuration of An Inverter Circuit Without Connecting External Input Resistors
(See Equivalent Circuit).



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{CC}	-50	V
Input Voltage	V _{IN}	-40 to +10	V
Output Current	I _o	-50	mA
	I _{C(Max)}	-100	
Power Dissipation	P _D	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

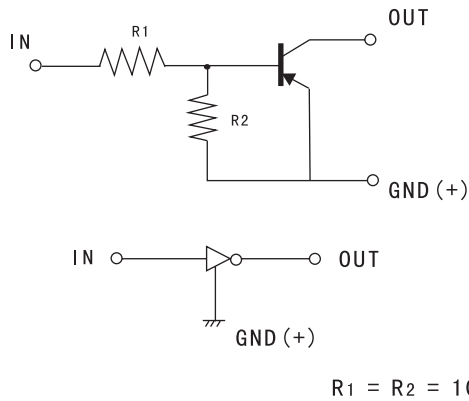
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Input Voltage	V _{I(off)}	V _{CC} = -5V , I _o = -100 μ A			-0.5	V
	V _{I(on)}	V _O = -0.3V , I _o = -10mA	-3			
Output Voltage	V _{O(on)}	I _o /I _i = -10mA/-0.5mA			-0.3	V
Input Current	I _i	V _i = -5V			-0.88	mA
Output Current	I _{O(off)}	V _{CC} = -50V , V _i = 0V			-0.5	μ A
DC Current Gain	G _I	V _O = -5V , I _o = -5mA	30			
Input Resistance	R ₁		7	10	13	k Ω
Resistance Ratio	R ₂ /R ₁		0.8	1	1.2	
Transistion Frequency	f _t *	V _{CE} = -10V , I _E = 5mA , f = 100MHz		250		MHz

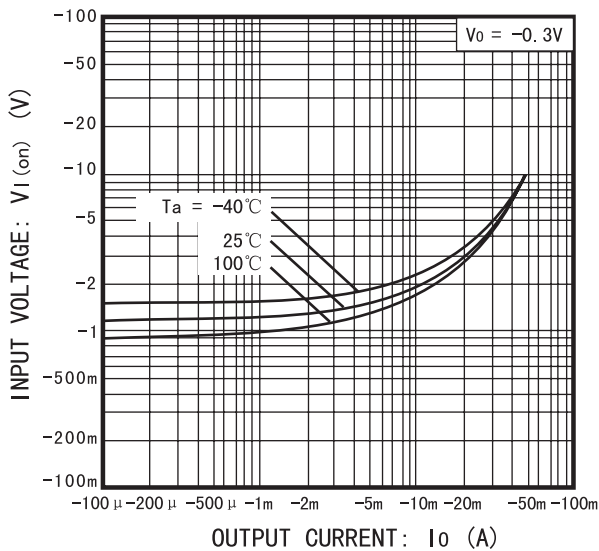
* Characteristics of built-in transistor

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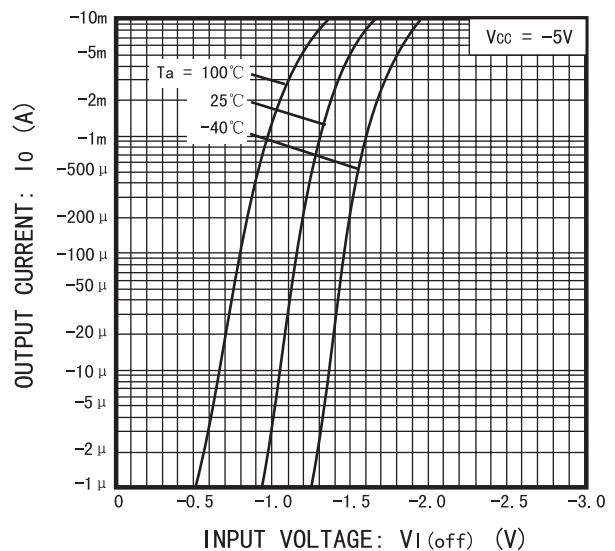
■ Equivalent Circuit



■ Electrical Characteristics Curves

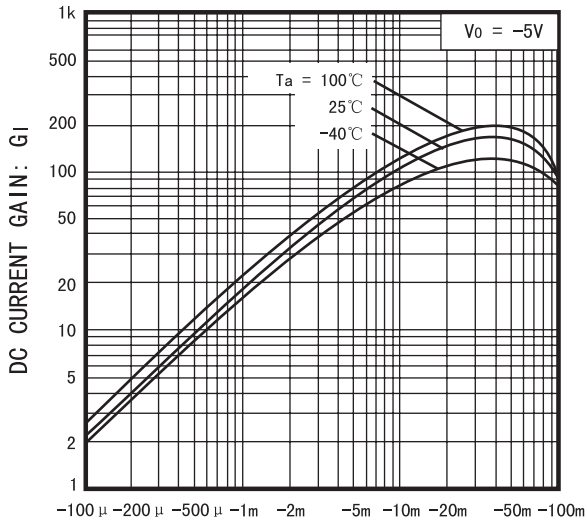


Input voltage vs. Output current
(ON characteristics)

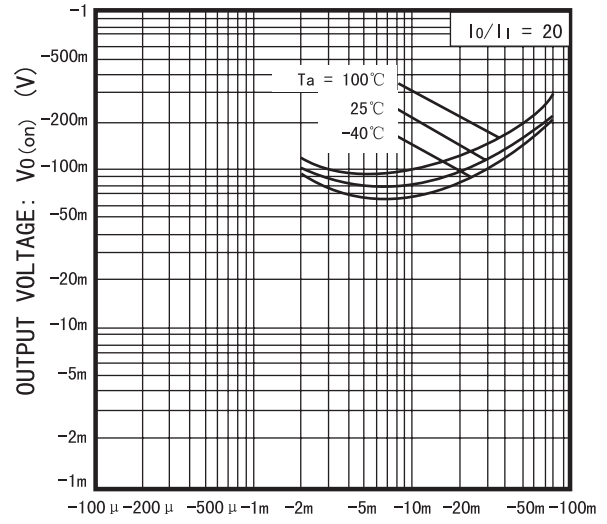


Output current vs. Input voltage
(OFF characteristics)

LTA014EMT2L



DC current gain vs Output current



Output voltage vs Output current