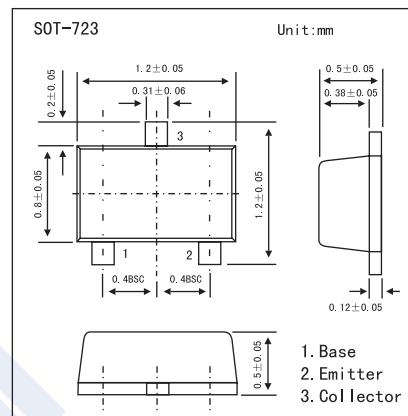


Digital Transistors

DTA114TM

■ 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
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CCEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _c	-100	mA
Collector Power Dissipation	P _c	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _c = -50 μ A	-50			V
Collector-Emitter Breakdown Voltage	BV _{CCEO}	I _c = -1mA	-50			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _e = -50 μ A	-5			V
Collector Cut-off Current	I _{cbo}	V _{CB} = -50V			-0.5	μ A
Emitter Cut-off Current	I _{ebo}	V _{EB} = -4V			-0.5	μ A
Collector-Emitter Saturation Voltage	V _{CESat}	I _c = -10mA , I _b = -1mA			-0.3	V
DC Current Transfer Ratio	h _{FE}	V _{CE} = -5V , I _c = -1mA	100	250	600	
Input Resistance	R _i		7	10	13	k Ω
Transition Frequency	f _T *	V _{CE} = -10V , I _e = 5mA , f = 100MHz		250		MHz

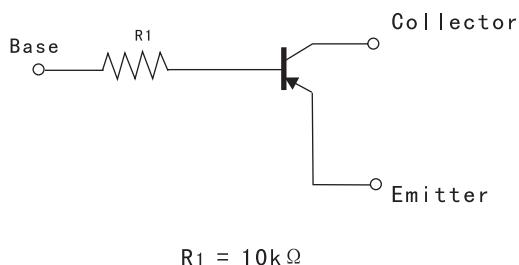
* Characteristics of built-in transistor

■ Marking

Marking	94
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■ Equivalent Circuit



■ Electrical Characteristics Curves

