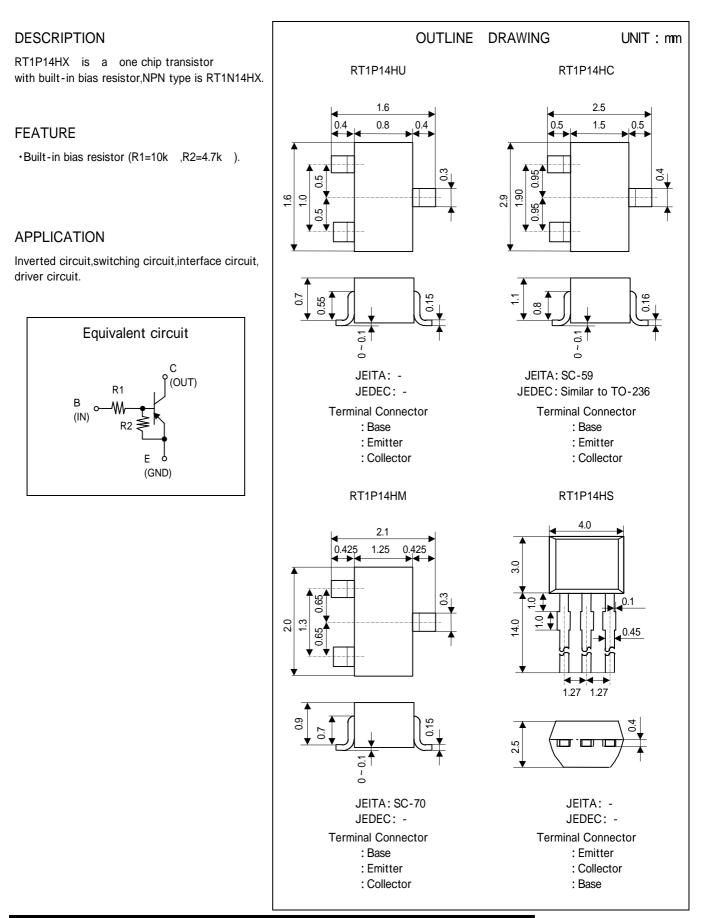
RT1P14HX SERIES

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

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Transistor

RT1P14HX SERIES

Transistor Transistor With Resistor For Switching Application

Silicon PNP Epitaxial Type

MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1P14HU	RT1P14HM	RT1P14HC	RT1P14HS	UNIT
V _{CBO}	Collector to Base voltage	-50				
V _{EBO}	Emitter to Base voltage	-10				
V _{CEO}	Collector to Emitter voltage	-50				
I _c	Collector current	-100				
I _{CM}	Peak Collector current	-200				
P _c	Collector dissipation(Ta=25)	150	2	200	450	mW
Tj	Junction temperature	+150	+150			
Tstg	Storage temperature	-55 ~ +150	-55 ~ +150			

ELECTRICAL CHARACTERISTICS (Ta=25)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E break down voltage	Ι _c =-100 μ A , R _{BE} =	-50			V
I _{CBO}	Collector cut off current	V _{CB} =-50V , I _E =0			-0.1	μA
h _{FE}	DC forward current gain	V _{CE} =-5V , I _C =-10mA	24			-
V _{CE(sat)}	C to E saturation voltage	I _c =-10mA , I _B =-0.5mA			-0.3	V
V _{I(ON)}	Input on voltage	V _{CE} =-0.2V , I _C =-5mA		-2.1	-3.8	V
V _{I(OFF)}	Input off voltage	V _{CE} =-5V , Ι _C =-100 μ A	-1.3	-1.7		V
R ₁	Input resistance		7	10	13	k
R_2/R_1	Resistance ratio		0.37	0.47	0.57	
f _T	Gain band width product	V_{CE} =-6V,I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS

-10 ^L

-0.8

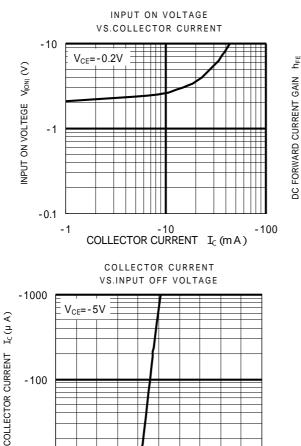
- 1.6

-2.4

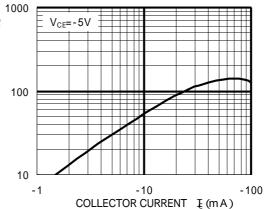
INPUT OFF VOLTAGE $V_{I(OFF)}(V)$

-3.2

-4



DC FORWARD CURRENT GAIN VS.COLLECTOR CURRENT



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