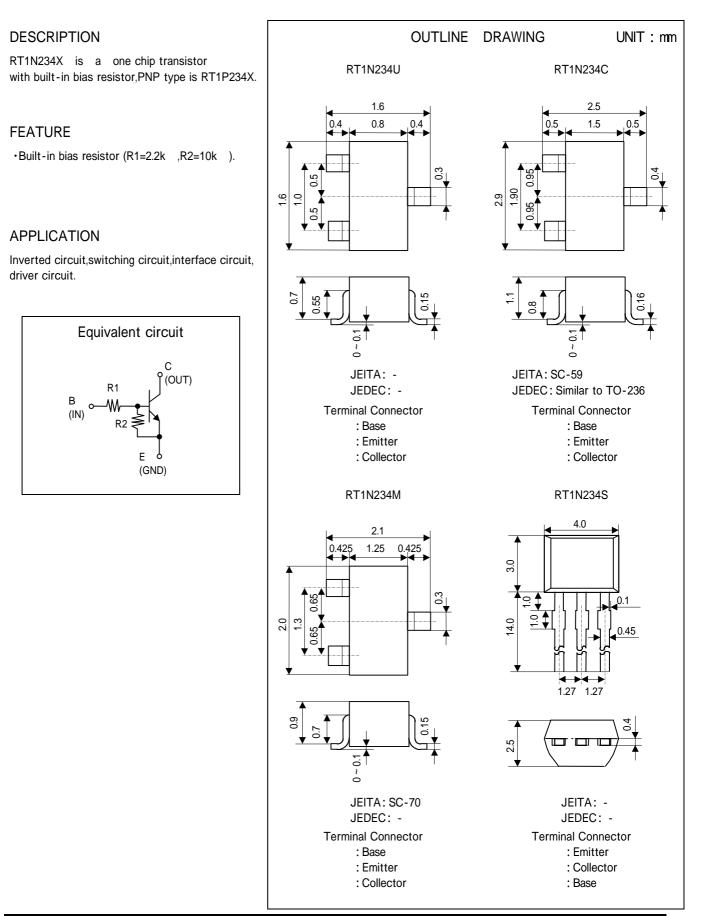
RT1N234X SERIES

Transistor Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N234X SERIES

Transistor Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

MAXIMUM RATING (Ta=25)

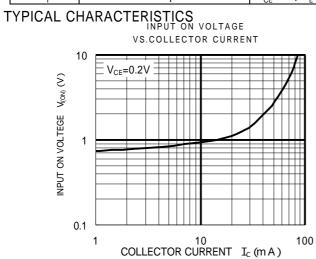
SYMBOL	PARAMETER	RATING				UNIT
		RT1N234U	RT1N234M	RT1N234C	RT1N234S	UNIT
V _{CBO}	Collector to Base voltage	50				
V _{EBO}	Emitter to Base voltage	6				
V _{CEO}	Collector to Emitter voltage	50				V
I _c	Collector current	100				
I _{CM}	Peak Collector current	200				mA
P _c	Collector dissipation(Ta=25)	150	2	00	450	mW
Tj	Junction temperature	+150 +150				
Tstg	Storage temperature	-55 ~ +150	-55 ~ +150			

ELECTRICAL CHARACTERISTICS (Ta=25)

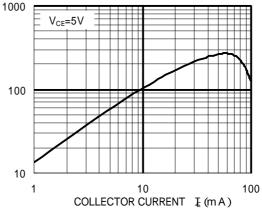
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E break down voltage	Ι _c =100 μ A , R _{BE} =	50			V
I _{CBO}	Collector cut off current	V _{CB} =50V , I _E =0			0.1	μA
h _{FE}	DC forward current gain	V_{CE} =5V , I _C =10mA	33			-
V _{CE(sat)}	C to E saturation voltage	I _c =10mA , I _B =0.5mA		0.1	0.3	V
V _{I(ON)}	Input on voltage	V _{CE} =0.2V , I _C =5mA		0.8	1.4	V
V _{I(OFF)}	Input off voltage	V_{CE} =5V , I $_{C}$ =100 μ A	0.5	0.7		V
R ₁	Input resistance		1.5	2.2	2.9	k
R_2/R_1	Resistance ratio		3.8	4.7	5.6	
f _T	Gain band width product	V _{CE} =6V , I _E =-10mA		200		MHz

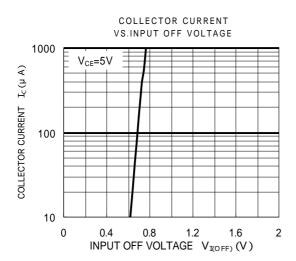
hE

DC FORWARD CURRENT GAIN











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