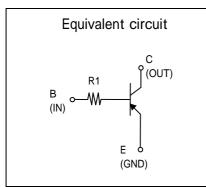
RT1P230X SERIES

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION OUTLINE DRAWING UNIT: mm RT1P230X is a one chip transistor RT1P230U RT1P230C with built-in bias resistor, NPN type is RT1N230X. 2.5 1.6 0.4 0.8 1.5 0.4 0.5 0.5 **FEATURE** •Built-in bias resistor (R1=2.2k). 2 90 9. 0 2.9 **APPLICATION** 0.55 <u>80</u> Equivalent circuit <u>.</u> 5 ~ ∼ 0 С JEITA: -JEITA: SC-59 (OUT) R1 JEDEC: -JEDEC: Similar to TO-236 В -W 0 **Terminal Connector Terminal Connector** (IN) : Base : Base : Emitter : Emitter : Collector : Collector Е (GND) RT1P230M **RT1P230S** 4.0 2.1 1.25 0.425 0.425 3.0 3 2.0 4.0 \tilde{c} 65 .45 1.27 1.27 0.0 0~0.1 JEITA: SC-70 JEITA: -JEDEC: -JEDEC: -**Terminal Connector Terminal Connector** : Emitter : Base : Emitter : Collector : Collector : Base

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Inverted circuit, switching circuit, interface circuit, driver circuit.



Transistor

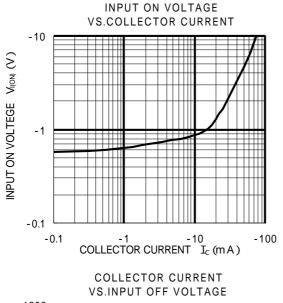
RT1P230X SERIES

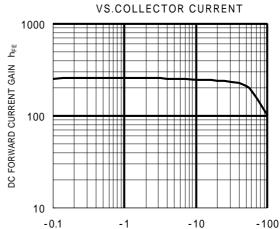
MAXIMUM RATING (Ta=25)

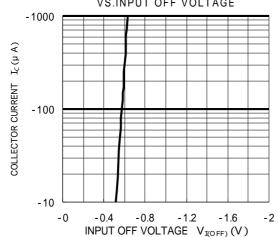
SYMBOL	PARAMETER	RATING				UNIT
STIVIDOL		RT1P230U	RT1P230M	RT1P230C	RT1P230S	
V _{CBO}	Collector to Base voltage	-50			V	
V _{EBO}	Emitter to Base voltage	-6			V	
V _{CEO}	Collector to Emitter voltage	-50			V	
I _c	Collector current	-100				mA
I _{CM}	Peak Collector current	-200			mA	
P _c	Collector 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	SVMBOI	PARAMETER	TEST CONDITION	LIMIT			UNIT
	FARAIVETER	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 =-1mA	100			-
	$V_{CE(sat)}$	C to E saturation voltage	I _c =-10mA , I _B =-0.5mA			-0.3	V
	R ₁	Input resistance		1.5	2.2	2.9	k
	f _T	Gain band width product	V _{CE} =-6V , I _E =10mA		150		MHz









COLLECTOR CURRENT [(m A)

DC FORWARD CURRENT GAIN

ISAHAYA ELECTRONICS CORPORATION



Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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