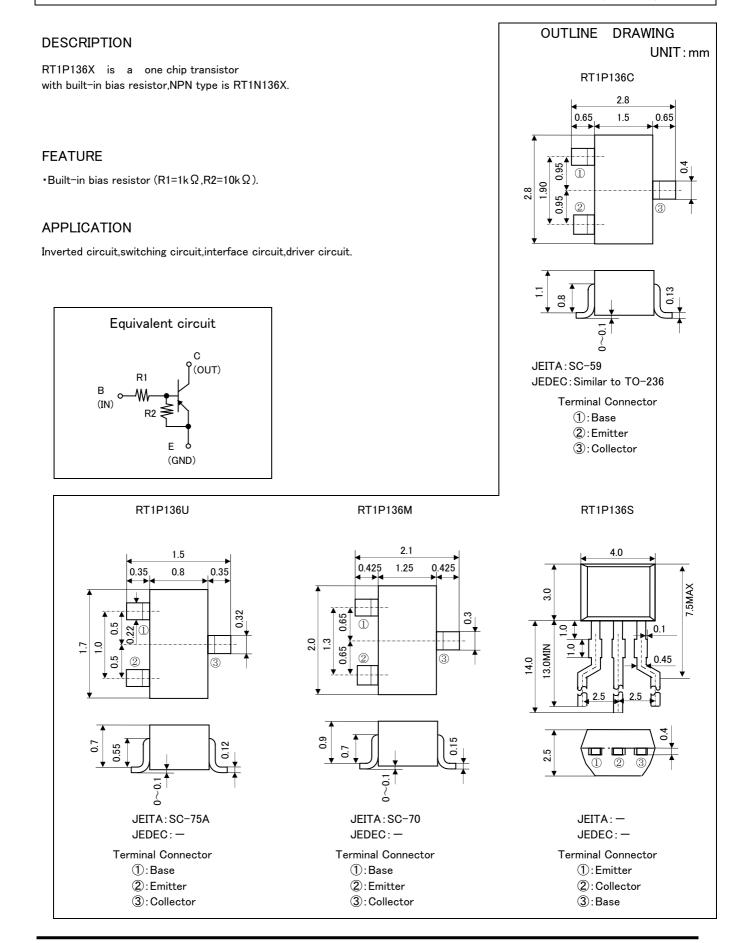
RT1P136X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1P136X SERIES

〈Transistor〉 Transistor With Resistor

For Switching Application Silicon PNP Epitaxial Type

MARKING

RT1P136C RT1P136M RT1P136U	RT1P136S
PC type name	type name Lot No.

MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1P136U	RT1P136M	RT1P136C	RT1P136S	UNIT
V _{CBO}	Collector to Base voltage	-50				V
V _{EBO}	Emitter to Base voltage	-6				V
V _{CEO}	Collector to Emitter voltage	-50				V
V _{IN}	Input voltage	-10				V
Ι _c	Collector current	-100				mA
I _{CM}	Peak Collector current	-200				mA
Pc	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150				°C
Tstg	Storage temperature	-55~+150				С°

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL PARAMETER	TEST CONDITION	LIMIT			UNIT	
	TEST CONDITION		TYP	MAX		
$V_{(BR)CEO}$	C to E break down voltage	$I_{c} = -100 \mu \text{A}, \text{R}_{BE} = \infty$	-50		—	V
I _{CBO}	Collector cut off current	V _{CB} =-50V, I _E =0		1	-0.1	μA
I _{EBO}	Emitter cut off current	V_{EB} =-5V, I _c =0	-332	-443	-642	μA
h _{FE}	DC forward current gain	V _{CE} =-5V, I _c =-5mA	33		—	—
$V_{CE(sat)}$	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		-0.7	-1.2	V
$V_{I(OFF)}$	Input off voltage	V_{ce} =-5V, I _c =-100 μ A	-0.4	-0.6	—	V
R ₁	Input resistor	_	0.7	1.0	1.3	kΩ
R_2 / R_1	Resistor ratio	—	8	10	12	—
f⊤	Gain band width product	V _{ce} =-6V, I _e =10mA	-	150	_	MHz

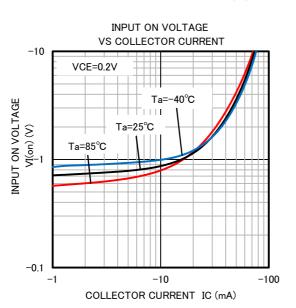
RT1P136X SERIES

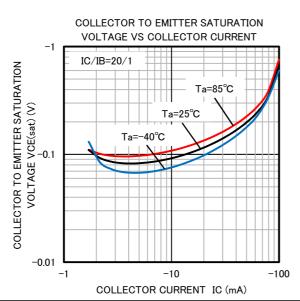
Transistor With Resistor For Switching Application

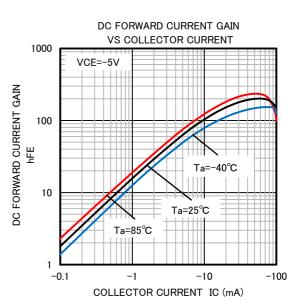
Silicon PNP Epitaxial Type

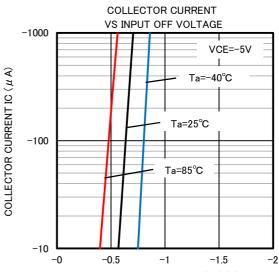
COLLECTOR DISSIPATION **VS AMBIENT TEMPERATURE** 600 RT1P136S COLLECTOR DISSIPATION Pc (mW) 500 RT1P136C RT1P136M 400 RT1P136U 300 200 100 0 0 25 50 75 100 125 150 175 AMBIENT TEMPERATURE Ta (°C)

TYPICAL CHARACTERISTIC









INPUT OFF VOLTAGE VI(off) (V)



(Transistor)

ISAHAYA ELECTRONICS CORPORATION

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