RT1P141X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

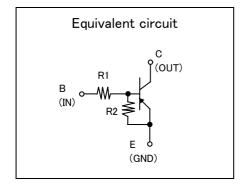
RT1P141X is a one chip transistor with built-in bias resistor, NPN type is RT1N141X.

FEATURE

•Built–in bias resistor (R1=10k Ω ,R2=10k Ω).

APPLICATION

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

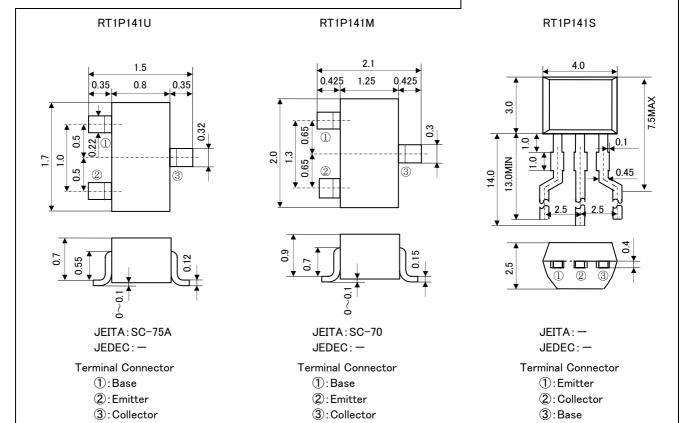


OUTLINE DRAWING UNIT: mm RT1P141C 2.8 0.65 1.5 1.90 JEITA: SC-59

JEDEC: Similar to TO-236

Terminal Connector

- (1):Base
- (2): Emitter
- 3: Collector

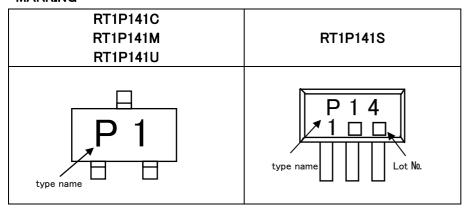


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1P141U	RT1P141M	RT1P141C	RT1P141S	UNIT
V _{CBO}	Collector to Base voltage	-50				
V_{EBO}	Emitter to Base voltage	-10				
V _{CEO}	Collector to Emitter voltage	-50				
V_{IN}	Input voltage	-40				
I c	Collector current	-100				
I _{CM}	Peak Collector current	-200				
Pc	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150				°C
Tstg	Storage temperature	−55 ~ +150				°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

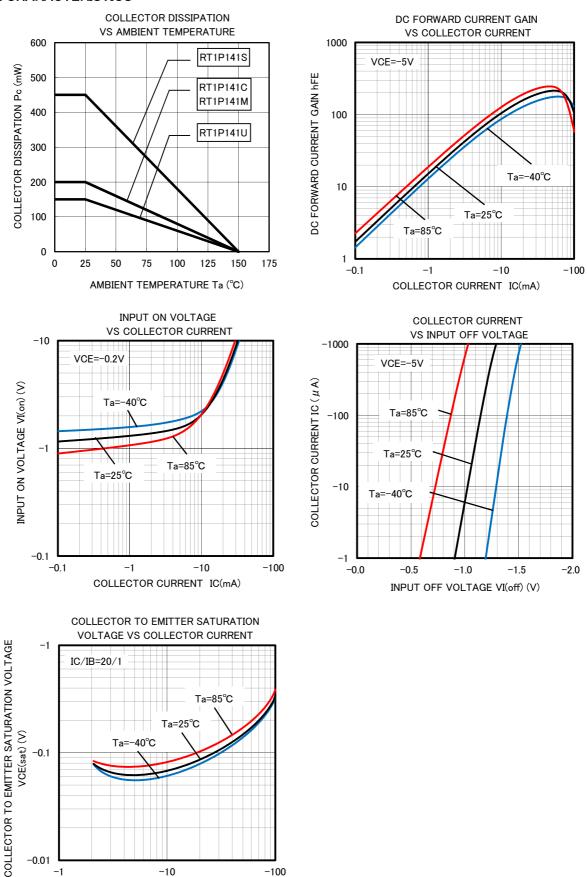
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STWIBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50	1	1	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0	1	_	-0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =-5V, I $_{C}$ =0	-192	-250	-357	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I _C =-10mA	50	ı	-	_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10 \text{mA}, I_{B} = -0.5 \text{mA}$	1	-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =-0.2V, I $_{C}$ =-5mA	-	-1.5	-3.0	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V, I $_{C}$ =-100 μ A	-0.8	-1.1	ı	V
R ₁	Input resistor	_	7.0	10	13	kΩ
R ₂ /R ₁	Resistor ratio	_	0.9	1.0	1.1	_
f _⊤	Gain band width product	V_{CE} =-6V, I _E =10mA	_	150	_	MHz

RT1P141X SERIES

⟨Transistor⟩

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

TYPICAL CHARACTERISTICS



-100

-10

COLLECTOR CURRENT IC(mA)



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