RT1P140X SERIES

(Transistor)

UNIT: mm

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

OUTLINE DRAWING

DESCRIPTION

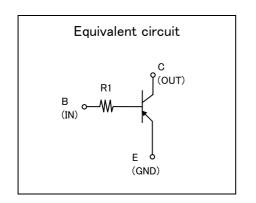
RT1P140X is a one chip transistor with built-in bias resistor, NPN type is RT1N140X.

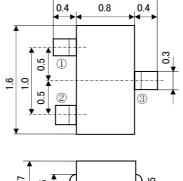
FEATURE

•Built-in bias resistor (R1=10k Ω).

APPLICATION

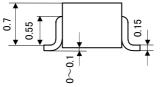
Inverted circuit, switching circuit, interface circuit, driver circuit.





RT1P140U

1.6

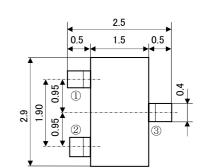


JEITA: — JEDEC: —

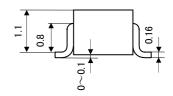
Terminal Connector

- ①:Base
- 2: Emitter
- 3: Collector

RT1P140M



RT1P140C

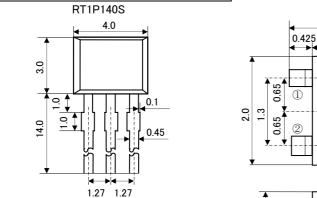


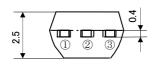
JEITA: SC-59 JEDEC: Similar to TO-236

Terminal Connector

- ①:Base
- 2: Emitter
- 3: Collector

RT1P140T

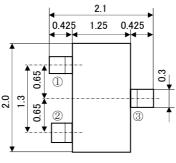


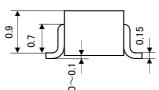


JEITA: — JEDEC: —

Terminal Connector

- 1: Emitter
- 2: Collector
- ③:Base

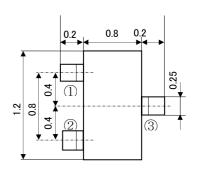


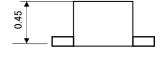


JEITA: SC-70 JEDEC: —

Terminal Connector

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





JEITA:-, JEDEC:ISAHAYA:-

Terminal Connector

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

RT1P140X SERIES

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

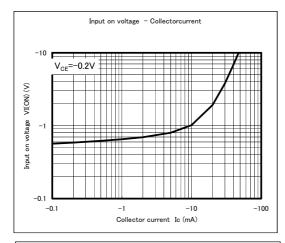
MAXIMUM RATING (Ta=25°C)

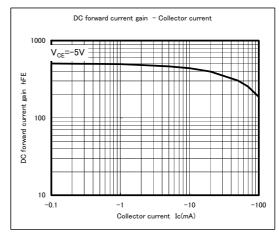
SYMBOL	PARAMETER	RATING					
		RT1P140T	RT1P140U	RT1P140M	RT1P140C	RT1P140S	UNIT
V _{CBO}	Collector to Base voltage	−50					
$V_{\sf EBO}$	Emitter to Base voltage	-6					
$V_{\sf CEO}$	Collector to Emitter voltage	-50					
Ιc	Collector current	-100					
I _{CM}	Peak Collector current	-200					
P _c	Collector dissipation(Ta=25°C)	125(※)	150	200		450	mW
Tj	Junction temperature	+125	+125 +150				
Tstg	Storage temperature	−55 ~ +125	-55∼+125 -55∼+150				

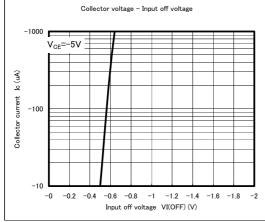
ELECTRICAL CHARACTERISTICS (Ta=25°C) (**) package mounted on 9mm×19mm×1mm glass-epoxy substrate.

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50			٧
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0			-0.1	μΑ
h_{FE}	DC forward current gain	V_{CE} =-5V, I _C =-1mA	100			ı
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10 \text{mA}, I_{B} = -0.5 \text{mA}$			-0.3	٧
R ₁	Input resistance		7	10	13	kΩ
f_{T}	Gain band width product	V_{CE} =-6V, I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS









Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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