RT1P150X SERIES

(Transistor)

UNIT: mm

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

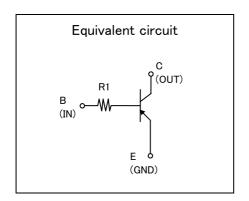
RT1P150X is a one chip transistor with built-in bias resistor,NPN type is RT1N150X.

FEATURE

•Built-in bias resistor (R1=100k Ω).

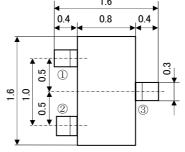
APPLICATION

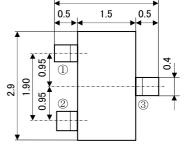
Inverted circuit, switching circuit, interface circuit, driver circuit.

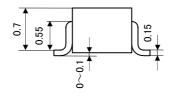


RT1P150U RT1P150C

OUTLINE DRAWING







JEITA: — JEDEC: —

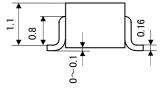
Terminal Connector

①:Base

2: Emitter

3: Collector

RT1P150M



JEITA: SC-59

JEDEC: Similar to TO-236

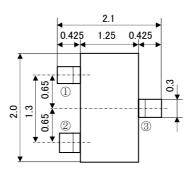
Terminal Connector

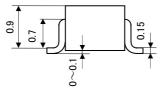
①:Base

2:Emitter

3: Collector

RT1P150S





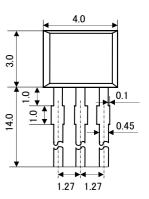
JEITA: SC-70 JEDEC: —

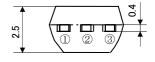
Terminal Connector

①:Base

2: Emitter

3: Collector





JEITA : — JEDEC : —

Terminal Connector

①:Emitter

2: Collector

③:Base

RT1P150X SERIES

(Transistor)

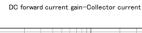
Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

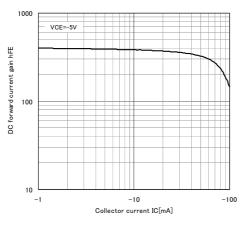
MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				UNIT
		RT1P150U	RT1P150M	RT1P150C	RT1P150S	UNIT
V_{CBO}	Collector to Base voltage	-50				
$V_{\sf EBO}$	Emitter to Base voltage	-6				
V_{CEO}	Collector to Emitter voltage	-50				
Ic	Collector current	-100				
I _{CM}	Peak Collector current	-200				
P _c	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150 +150			°C	
Tstg	Storage temperature	−55 ~ +150	150 −55 ~ +150			°C

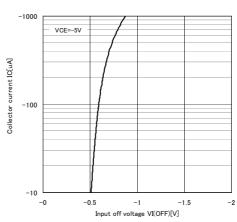
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =-100 μ A, R _{BE} =∞	-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			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -1 \text{mA}, I_B = -0.1 \text{mA}$			-0.3	٧
R ₁	Input resistance			100		kΩ
f_{T}	Gain band width product	V_{CE} =-6V, I_{E} =10mA		150		MHz

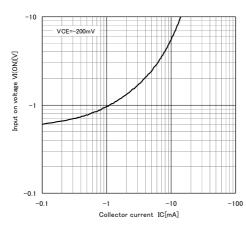




Collector current-Input off voltage



Input on voltage-Collector current





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

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