RT1N140X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

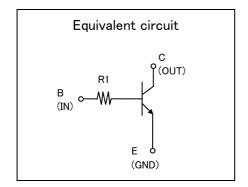
RT1N140X is a one chip transistor with built-in bias resistor, PNP type is RT1P140X.

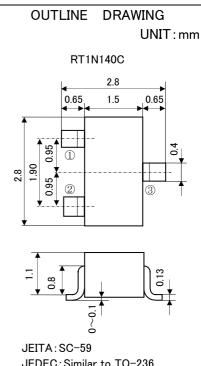
FEATURE

•Built-in bias resistor (R1=10k Ω)

APPLICATION

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

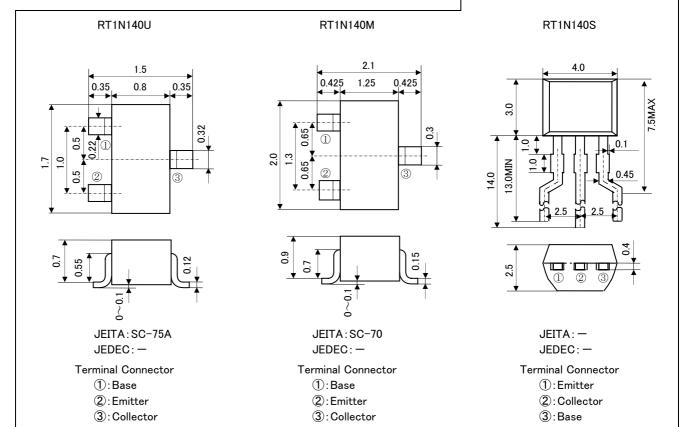




JEDEC: Similar to TO-236

Terminal Connector

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

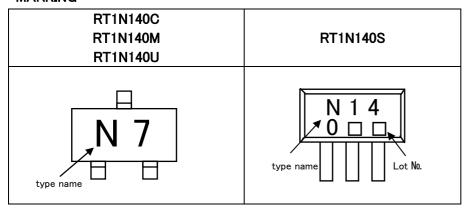


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1N140U	RT1N140M	RT1N140C	RT1N140S	UNIT
V _{CBO}	Collector to Base voltage	50				
V_{EBO}	Emitter to Base voltage	6				
V_{CEO}	Collector to Emitter voltage	50				
Ιc	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				
Tstg	Storage temperature	−55 ~ +150				

ELECTRICAL CHARACTERISTICS (Ta=25°C)

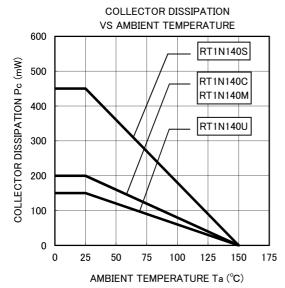
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STWIDOL		TEST CONDITION	MIN	TYP	MAX	ONLI
$V_{(BR)CEO}$	C to E break down voltage	I _C =100 μ A, R _{BE} =∞	50	_	ı	٧
I _{CBO}	Collector cut off current	V_{CB} =50V, I $_{E}$ =0	1	_	0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =5V, I $_{C}$ =0	_	_	0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =1mA	100	_	-	_
$V_{CE(sat)}$	C to E saturation voltage	I_{C} =10mA, I_{B} =0.5mA	ı	0.1	0.3	V
R ₁	Input resistor	_	7	10	13	kΩ
f_{T}	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$	_	200	_	MHz

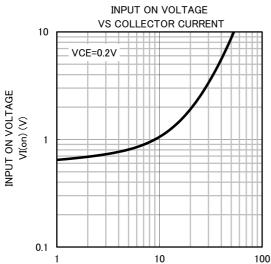
RT1N140X SERIES

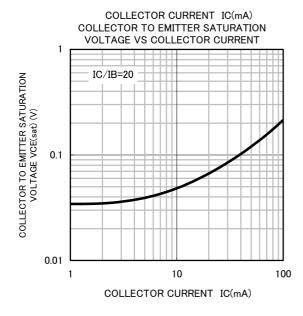
(Transistor)

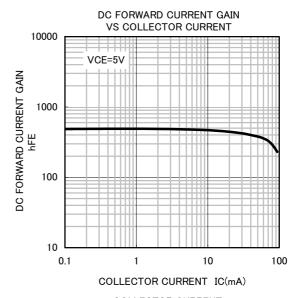
Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

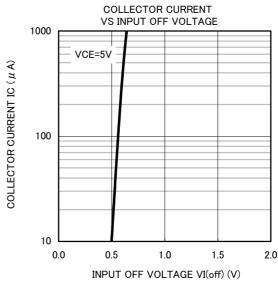
TYPICAL CHARACTERISTICS (Ta=25°C)













Keep safety first in your circuit designs!

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