

RT1P140M-T150

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

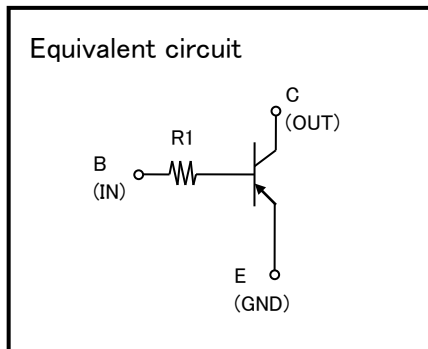
AEC-Q101 Compliance

FEATURE

- Built-in bias resistor ($R1=10k\Omega$)
- Mini package for easy mounting

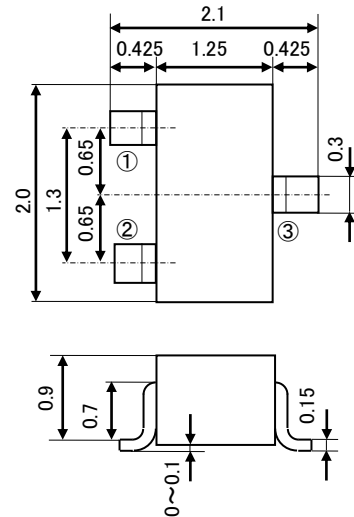
APPLICATION

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



OUTLINE DRAWING

UNIT : mm



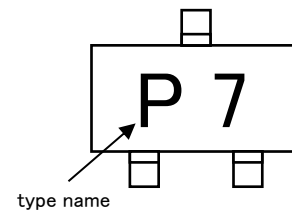
Terminal
Connector

- ① : Base JEITA : SC-70
② : Emitter JEDEC : -
③ : Collector

MAXIMUM RATING ($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	RATING	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
I_C	Collector current	-100	mA
I_{CM}	Peak Collector current	-200	mA
P_C	Collector dissipation	200	mW
T_j	Junction temperature	+150	$^\circ\text{C}$
T_{stg}	Storage temperature	-55~+150	$^\circ\text{C}$

MARKING



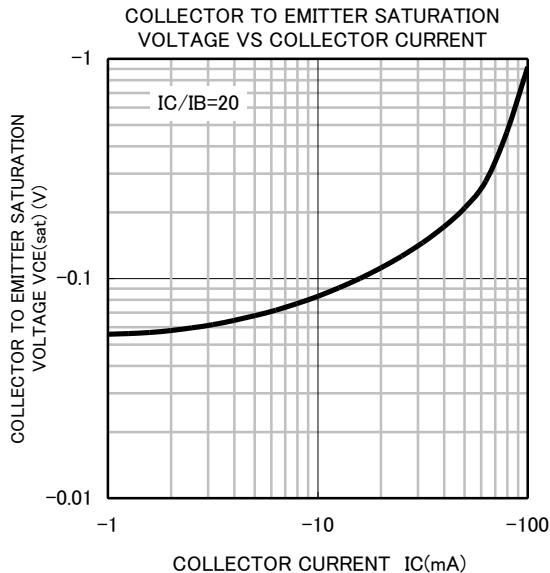
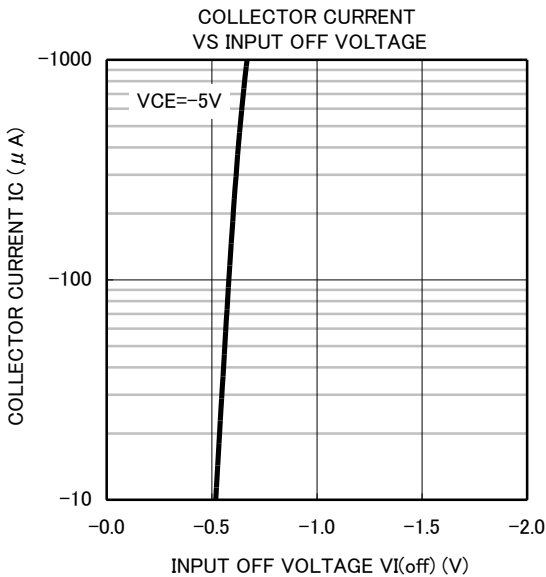
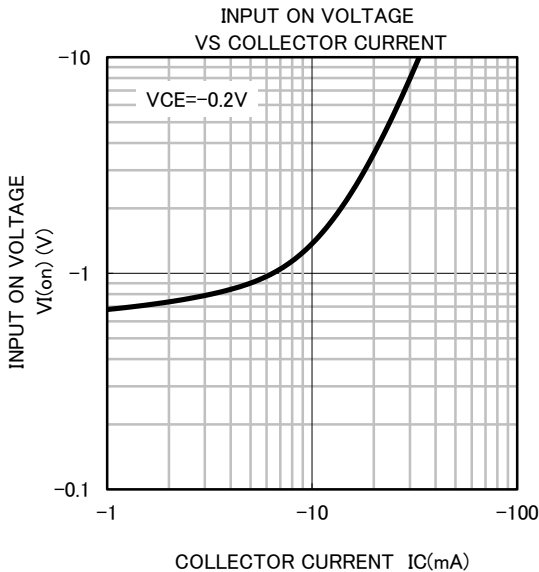
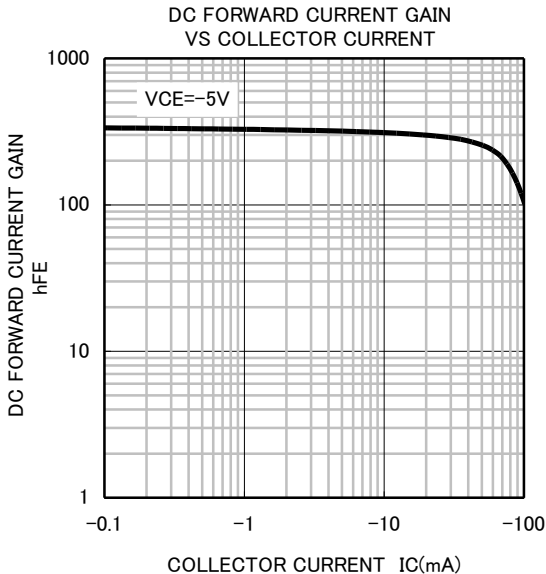
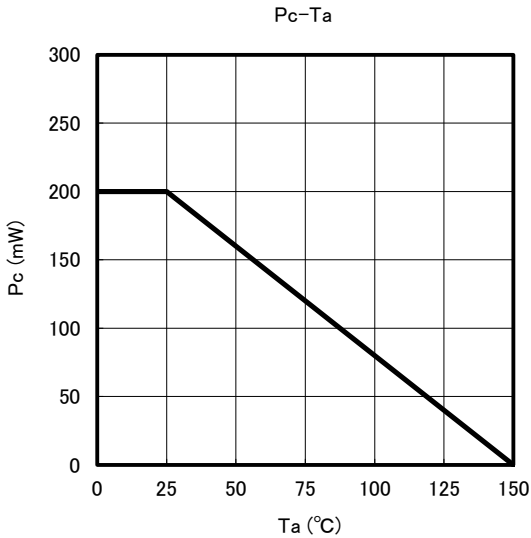
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	C to E breakdown voltage	$I_C=-100\mu\text{A}$, $R_{BE}=\infty$	-50	-	-	V
I_{CBO}	Collector cut off current	$V_{CB}=-50\text{V}$, $I_E=0$	-	-	-0.1	μA
I_{EBO}	Emitter cut off current	$V_{EB}=-5\text{V}$, $I_C=0$	-	-	-0.1	μA
h_{FE}	DC forward current gain	$V_{CE}=-5\text{V}$, $I_C=-1\text{mA}$	100	-	-	-
$V_{CE(sat)}$	C to E saturation voltage	$I_C=-10\text{mA}$, $I_B=-0.5\text{mA}$	-	-0.1	-0.3	V
R1	Input resistor	-	7	10	13	$k\Omega$
f_T	Gain band width product	$V_{CE}=-6\text{V}$, $I_E=10\text{mA}$	-	150	-	MHz

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TYPICAL CHARACTERISTICS(T_a=25°C)



Keep safety first in your circuit designs!

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