PRELIMINARY

Notice: This is not a final specification Some parametric are subject to change.

RTBN234AP1

TRANSISTOR WITH RESISTOR FOR SWITHING APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

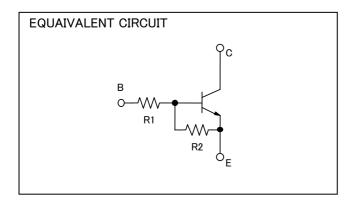
RTBN234AP1 is a one chip transistor with built-in bias transistor.

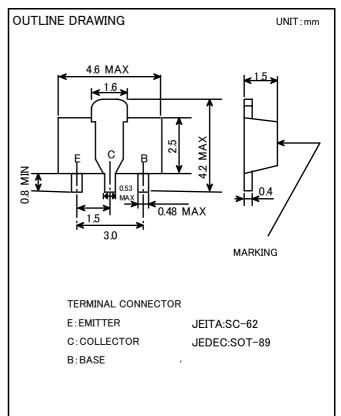
FEATURE

- •Built-in bias resistor (R1=2.2k Ω ,R2=10k Ω)
- •High collector current (IC=1A)
- ·Small package for easy mounting.

APPLICATION

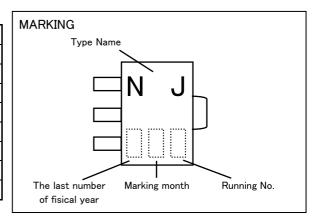
Switching.





MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	80	٧
V_{EBO}	Emitter to Base voltage	10	٧
V _{CEO}	Collector to Emitter voltage	60	٧
I c	Collector current	1	Α
I _{CM}	Peak collector current	2	Α
P _{CM}	Collector dissipation(Ta=25°C)	500	mW
T _j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			LINIT
STMBOL		TEST CONDITIONS	MIN	TYP	MAX	UNIT
I_{CBO}	Collector cut off current	$V_{CE}=60V$, $I_{E}=0$		_	0.1	μΑ
VI(on)	Input on voltage	V _{CE} =0.3V, I _C =0.3A	_	_	5.0	٧
VI(off)	Input off voltage	V_{CE} =5V, I_{C} =100 μ A	0.3	_	_	٧
hFE1	DC forward current gain1	V _{CE} =2V, I _C =0.1A	200	_	_	-
hFE2	DC forward current gain2	V_{CE} =2V, I_{C} =0.5A	300	_	_	I
hFE3	DC forward current gain3	V _{CE} =2V, I _C =1A	200	_	_	1
R1	Input resistor	_	1.54	2.2	2.86	kΩ
R2	Emitter-base resistor	_	7	10	13	kΩ



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