PRELIMINARY

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

(SMALL-SIGNAL TRANSISTOR)

RTBN432AP1

TRANSISTOR WITH RESISTOR FOR SWITHING APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

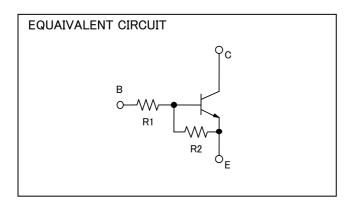
RTBN432AP1 is a one chip transistor with built-in bias transistor.

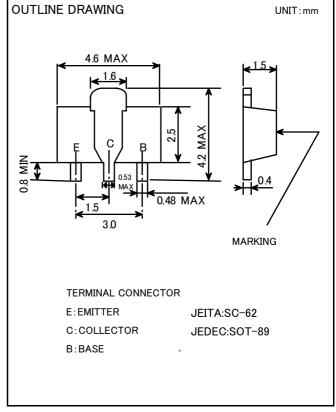
FEATURE

- •Built-in bias resistor (R1=4.7k Ω ,R2=10k Ω)
- •High collector current (IC=1A)
- •Small package for easy mounting.

APPLICATION

Switching.





MAXIMUM RATING(Ta=25°C)

		MARKING		
SYMBOL	PARAMETER	RATING	UNIT	Type Name
V _{CBO}	Collector to Base voltage	80	V	
V _{EBO}	Emitter to Base voltage	10	V	
V _{CEO}	Collector to Emitter voltage	60	V	
Ι _c	Collector current	1	Α	
I _{CM}	Peak collector current	2	Α	
P _{CM}	Collector dissipation(Ta=25°C)	500	mW	
Tj	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55~+150	°C	The last number Marking month Running No. of fisical year

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ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS		LIMITS		
		TEST CONDITIONS	MIN	TYP	MAX	UNIT
\mathbf{I}_{CBO}	Collector cut off current	V_{ce} =60V, I_{e} =0	—	—	0.1	μA
VI(on)	Input on voltage	V _{CE} =0.2V, I _C =0.2A	-	2.4	5.0	V
VI(off)	Input off voltage	V _{CE} =5V, I _C =100 μ A	0.3	0.67	_	V
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	850	_	—
hFE3	DC forward current gain3	V _{CE} =2V, I _C =1A	200		_	_
R1	Input resistor	—	3.29	4.7	6.11	kΩ
R2	Emitter-base resistor	_	7	10	13	kΩ



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