RTGN426AP

TRANSISTOR WITH RESISTOR FOR SWITHING APPLICATION SILICON NPN EPITAXIAL TYPE

DISCRIPTION

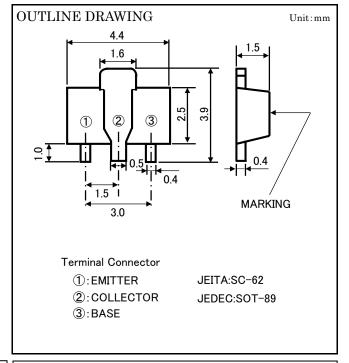
RTGN426AP is a one chip transistor with built-in bias transistor.

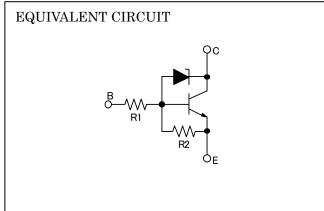
FEATURE

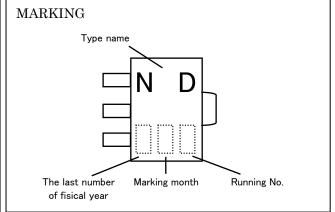
- Built-in bias resistor (R1=0.47k Ω ,R2=4.7k Ω)
- High collector current IC=1A
- Built-in zener diode between collector and base

APPLICATION

Motor driver circuit







MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	60±10	V
$V_{\rm EBO}$	Emitter to Base voltage	10	V
$V_{\rm CEO}$	Collector to Emitter voltage	60±10	V
I_{C}	Collector current (DC)	1	A
I_{CM}	Collector current (pulse)	2	A
Pc	Collector dissipation	500	mW
$T_{\rm j}$	Junction temperature	+150	°C
$T_{ m stg}$	Storage temperature	-55~+150	°C

⟨SMALL-SIGNAL TRANSISTOR⟩

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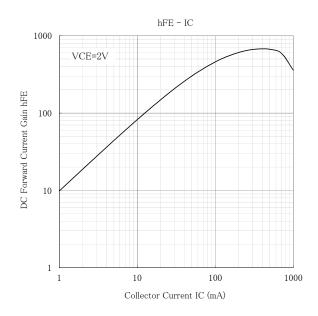
ELECTRICAL CHARACTERISTICS(Ta=25°C)

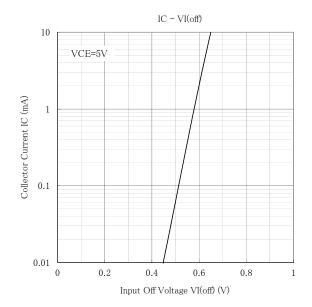
G 1.1	Parameter	m	Limits			TT :
Symbol		Test conditions		Тур	Max	Unit
I_{CBO}	Collector cut off current	V _{CB} =40V, I _E =0	_	_	0.1	μΑ
V_{OL}	Output voltage	V _I =5V, I _C =0.5A	_	_	0.5	V
V_{IL}	Input voltage (OFF)	$V_{CE}=5V, I_{C}=100 \muA$	0.3	_	_	V
hFE1	DC forward current gain	V _{CE} =2V, I _C =0.1A	200	_	_	_
hFE2	DC forward current gain	V _{CE} =2V, I _C =0.5A	300	_	_	_
hFE3	DC forward current gain	V _{CE} =2V, I _C =1A	200	_	_	_
R_1	Input resistor	_	0.329	0.470	0.611	kΩ
R_2	Emitter – Base resistor	_	3.29	4.70	6.11	$k\Omega$

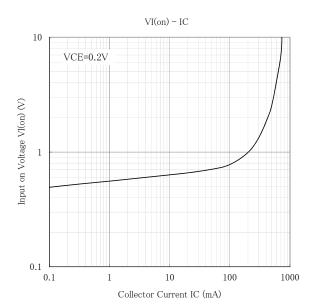
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TYPICAL CHARACTERISTICS









Keep safety first in your circuit designs!

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