RTGN226AP

TRANSISTOR WITH RESISTOR FOR SWITHING APPLICATION SILICON NPN EPITAXIAL TYPE

DISCRIPTION

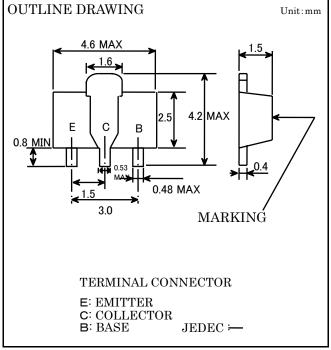
RTGN226AP is a one chip transistor with built-in bias transistor.

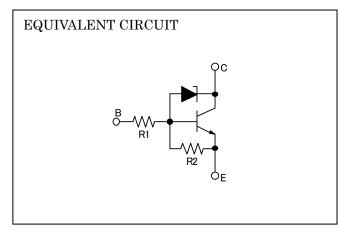
FEATURE

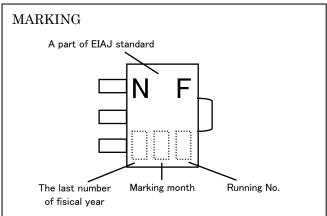
- Built-in bias resistor (R1=0.22k Ω ,R2=2.2k Ω)
- High collector current IC=1A
- Built-in zener diode between collector and base

APPLICATION

Motor driver circuit







MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	60±10	V	
V _{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	

 $\langle {\rm SMALL\text{-}SIGNAL\,TRANSISTOR} \rangle$

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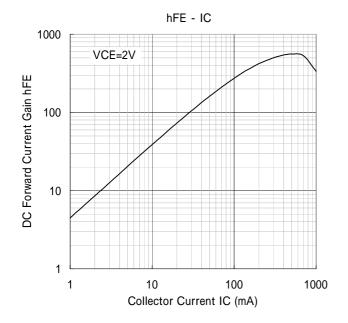
ELECTRICAL CHARACTERISTICS(Ta=25°C)

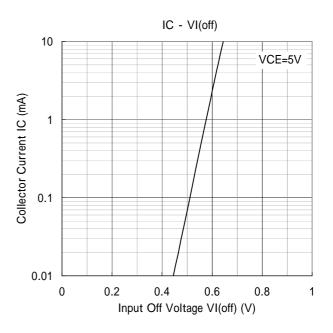
Symbol	Parameter	Test conditions	Limits			Unit
Symbol			Min	Тур	Max	Onit
I _{CBO}	Collector cut off current	V _{CB} =40V, IE=0	1	1	0.1	uA
V_{oL}	Output voltage	VI=5V, I_C =0.7A	1	1	0.5	٧
$V_{\rm IL}$	Input voltage (OFF)	V_{CE} =5V, I_{C} =100 μ A	0.3	I	ı	٧
hFE1	DC forward current gain	V_{CE} =2V, I_{C} =0.1A	100	1	1	_
hFE2	DC forward current gain	V_{CE} =2V, I_{C} =0.5A	300	I	ı	
hFE3	DC forward current gain	$V_{CE}=2V$, $I_{C}=1A$	200	I	ı	
R ₁	Input resistor	_	0.154	0.220	0.286	ΚΩ
R ₂	Emitter – Base resistor	_	1.54	2.22	2.86	ΚΩ

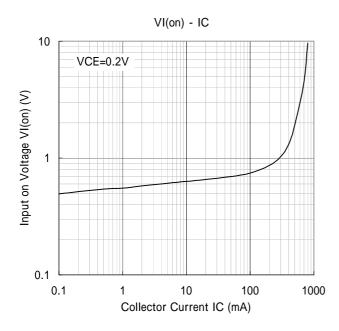
<SMALL-SIGNAL TRANSISTOR>

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