2SC3441-T150

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

OUTLINE DRAWING

AEC-Q101 Compliance

Unit:mm

DESCRIPTION

2SA3441 is a super mini silicon NPN epitaxial type transistor designed with high collector current, high voltage.

Complementary with 2SA1366.

FEATURE

- Excellent linearity of DC forward current gain.
- ●High V_{CEO} V_{CEO}=50V
- Super mini package for easy mounting.
- High collector current Icm=600mA
- High gain band width product f_T=150MHz typ

APPLICATION

For switching, small type motor application

MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to Base voltage	V _{CBO}	55	٧	
Emitter to Base voltage	V_{EBO}	4	٧	
Collector to Emitter voltage	V _{CEO}	50	٧	
Collector current	I_{C}	400	mA	
Peak Collector current	I_{CM}	600	mA	
Collector dissipation	Pc	200	mW	
Junction temperature	Tj	+150	°C	
Storage temperature	T_{stg}	-55 ~ + 150	°C	

TERMINAL CONNECTOR ①:BASE ②:EMITTER JEDEC: Similar to TO-236 ③:COLLECTOR

MARKING D TYPE NAME hFE ITEM

ELECTRICAL CHARACTERISTICS (Ta=25°C)

	6 1 1	-		Limits		
Parameter	Symbol	Symbol Test conditions		Тур	Max	Unit
C to B breakdown voltage	$V_{(BR)CBO}$	I_{C} =10 μ A , I_{E} =0 ·	55	-	-	V
E to B breakdown voltage	V _{(BR)EBO}	$I_E=10 \mu$ A , $I_C=0$	4	-	-	V
C to E breakdown voltage	$V_{(BR)CEO}$	I _C =100 μ A ,R _{BE} =∞	50	-	-	V
Collector cut off current	I_{CBO}	V _{CB} =25V, I _E =0	-	-	0.5	μΑ
Emitter cut off current	I _{EBO}	V _{EB} =2V, I _C =0		-	0.5	μΑ
DC forward current gain	h _{FE}	V _{CE} =4V, I _C =100mA	90	-	500	_
C to E saturation voltage V _{CE(sat)}		I _C =200mA ,I _B =10mA	-	0.15	0.5	V
Gain band width product	f _T	V _{CE} =6V, I _E =-10mA	_	150	_	MHz

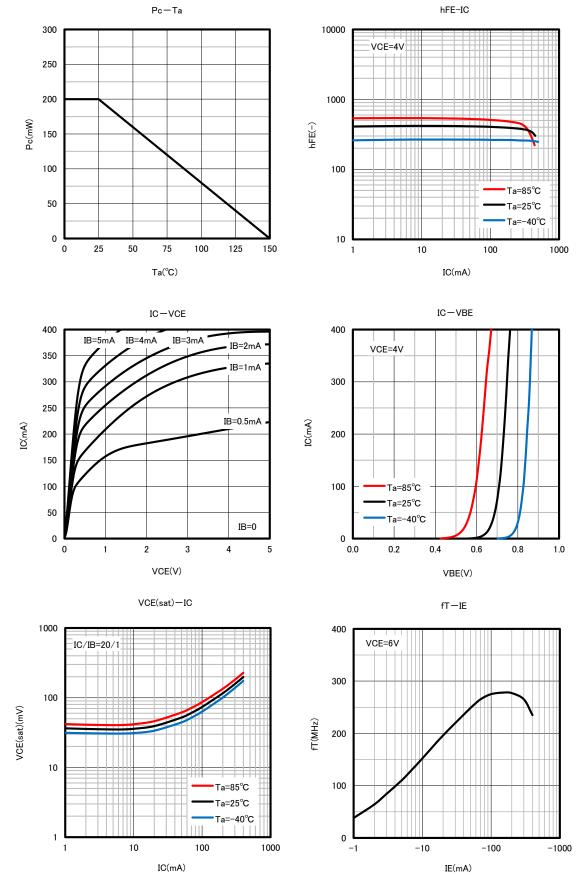
 \divideontimes) It shows h_{FE} classification in below table

ITEM	D	Е	F
h _{FE}	90 to 180	150 to 300	250 to 500

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TYPICAL CHARACTERISTICS



Keep safety first in your circuit designs!

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