INC1001AC1-T150

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

INC1001AC1 is a silicon NPN epitaxial type transistor. It is designed with high collector current and small $V_{\text{CE(sat)}}$.

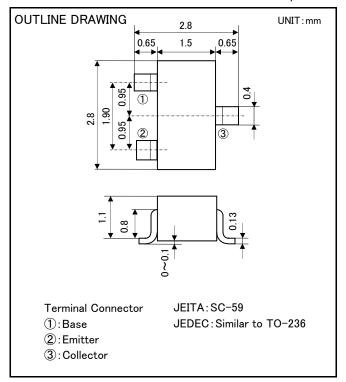
FEATURE

- ·Super mini package for easy mounting
- •High collector current(I_c=500mA)
- •Low collector saturation voltage

 $(V_{CE(sat)} < 0.3V_{max}; IC=100mA, IB=10mA)$

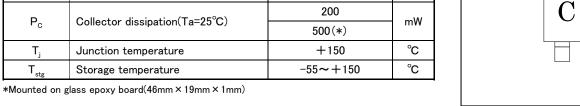
APPLICATION

For switching, Small type motor drive



MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CBO}	Collector to Base voltage	80	>	
V_{EBO}	Emitter to Base voltage	7	٧	
V_{CEO}	Collector to Emitter voltage	r to Emitter voltage 80		
Ιc	Collector current	0.5	Α	
P _c	Collector dissipation(Ta=25°C)	200	mW	
		500(*)		
T _j	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55 ~ +150	°C	



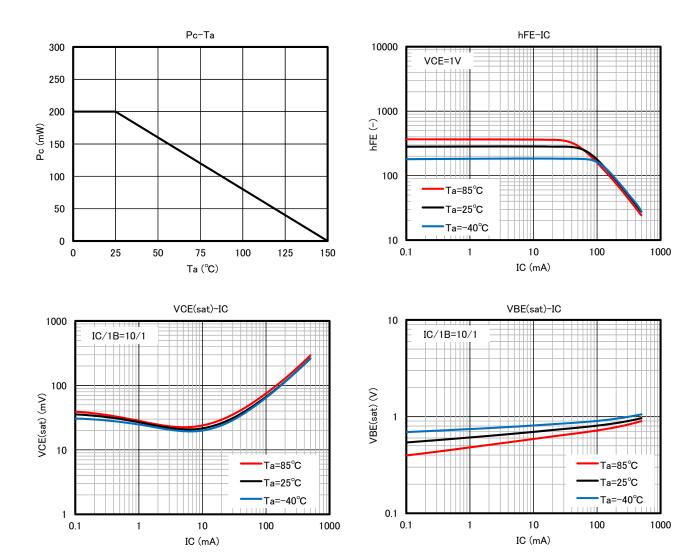
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
STWIBUL		TEST CONDITIONS		TYP	MAX	UNIT
$V_{(BR)CBO}$	C to B breakdown voltage	$I_{c}=100 \mu$ A, $I_{E}=0$	80	_	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_{E}=100 \mu A, I_{C}=0$	7	1	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	I _c =1mA, I _B =0	80	-	-	V
I_{CBO}	Collector cut off current	V_{CB} =80V, I_{E} =0	1	1	0.15	μΑ
\mathbf{I}_{EBO}	Emitter cut off current	V_{EB} =7V, I $_{C}$ =0	1	1	0.15	μΑ
h _{FE1}	DC forward current gain1	VCE=1V, I _C =10mA	105	-	-	_
h _{FE2}	DC forward current gain2	VCE=1V, I _c =100mA	95	-	-	-
V _{CE(sat)}	C to E saturation voltage	I _c =100mA, I _B =10mA	_	-	0.3	٧
fT	Gain bandwidth product	VCE=2V, I _E =-10mA, f=100MHz	100	-	_	MHz

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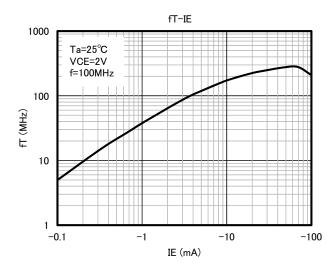
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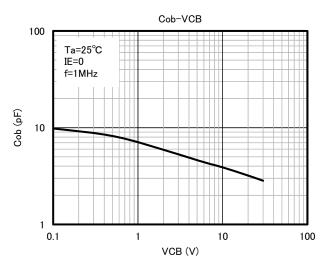
TYPICIAL CHARACTERISTICS

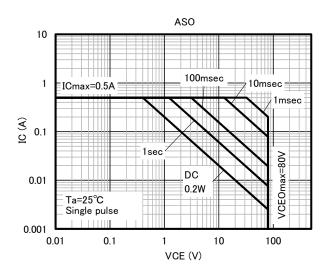


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