INC6008AC1-T150

FOR HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

INC6008AC1 is a silicon NPN epitaxial type transistor. It is designed with high collector current and small $V_{\text{CE(sat)}}$.

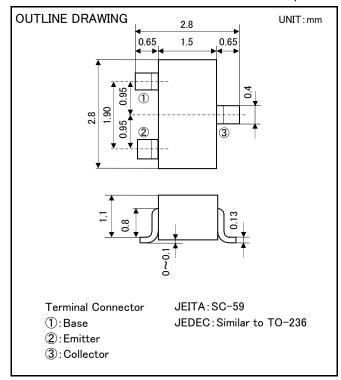
FEATURE

- •Super mini package for easy mounting
- •High collector current(I_C=1A)
- •Low collector saturation voltage

 $(V_{CE(sat)} < 0.7V_{max}; I_{C} = 150 \text{mA}, I_{B} = 15 \text{mA})$

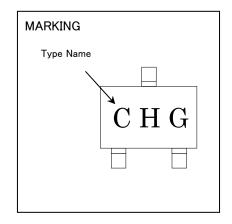
APPLICATION

Switching, Small type motor drive



MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	160	٧
V_{EBO}	Emitter to Base voltage	5	V
V_{CEO}	Collector to Emitter voltage	140	٧
I _C	Collector current	1	Α
P _c	Collector dissipation(Ta=25°C)	200	
T _j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



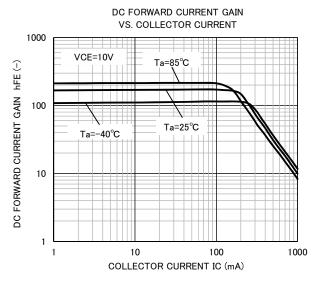
ELECTRICAL CHARACTERISTICS (Ta=25°C)

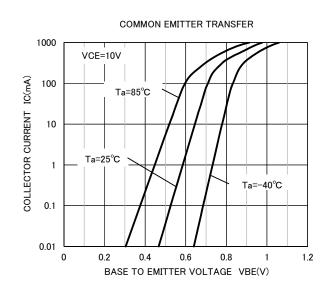
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
STWIBUL		TEST CONDITIONS		TYP	MAX	UNIT
$V_{(BR)CBO}$	C to B breakdown voltage	$I_{c}=100 \mu A, I_{E}=0mA$	160	_	1	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_{E}=100 \mu A, I_{C}=0mA$	5	_	1	V
$V_{(BR)CEO}$	C to E breakdown voltage	I _c =10mA, R _{BE} =∞	140	_	-	V
I_{CBO}	Collector cut off current	V_{CB} =140V, I_E =0mA	-	_	100	nA
\mathbf{I}_{EBO}	Emitter cut off current	V_{EB} =4V, I $_{C}$ =0mA	1	_	100	nA
h _{FE}	DC forward current gain	V_{CE} =10V, I $_{C}$ =150mA	100	_	300	_
$V_{CE(sat)}$	C to E saturation voltage	I_{c} =150mA, I_{B} =15mA	-	_	0.7	V
$V_{BE(sat)}$	B to E saturation voltage	$I_c=150$ mA, $I_B=15$ mA	_	-	1.1	V
f _T	Gain bandwidth product	V _{CE} =10V, I _E =-50mA, f=100MHz	100	-	_	MHz
Cob	Collector output capacitance	V _{CB} =10V, f=1MHz	1	_	15	pF

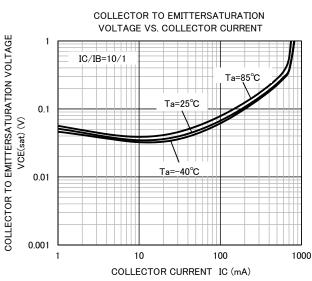
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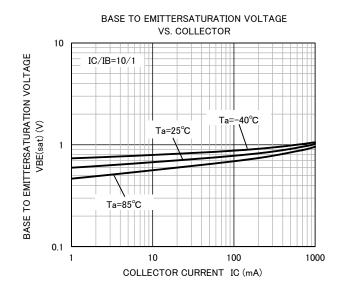
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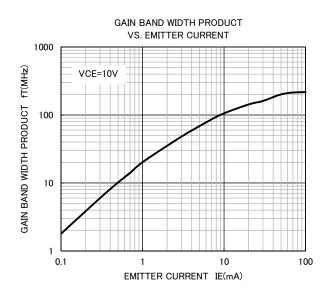
TYPICAL CHARACTERISTICS

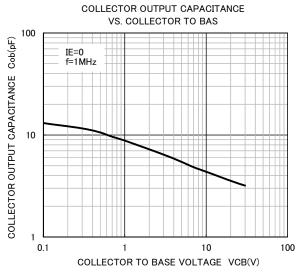






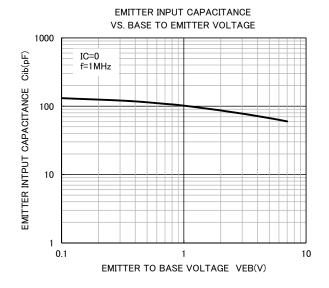


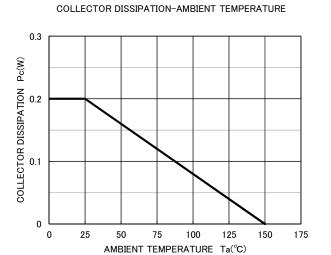




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