INC6017AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

INC6017AC1 is a silicon NPN transistor.

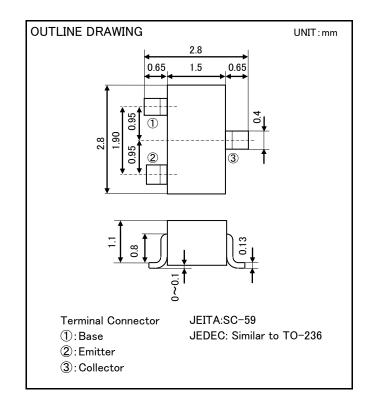
It is designed with high voltage.

FEATURE

- Small package for easy mounting.
- •High voltage V_{CEO} = 160V
- •Low voltage VCE(sat) = 0.15V(MAX)

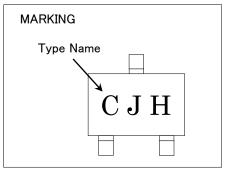
APPLICATION

High voltage switching.



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	180	V
V_{EBO}	Emitter to Base voltage	6	V
V_{CEO}	Collector to Emitter voltage	160	V
I _{CM}	Peak collector current	200	mA
Ιc	Collector current	100	mA
Pc	Collector dissipation(Ta=25°C)	200	mW
Tj	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



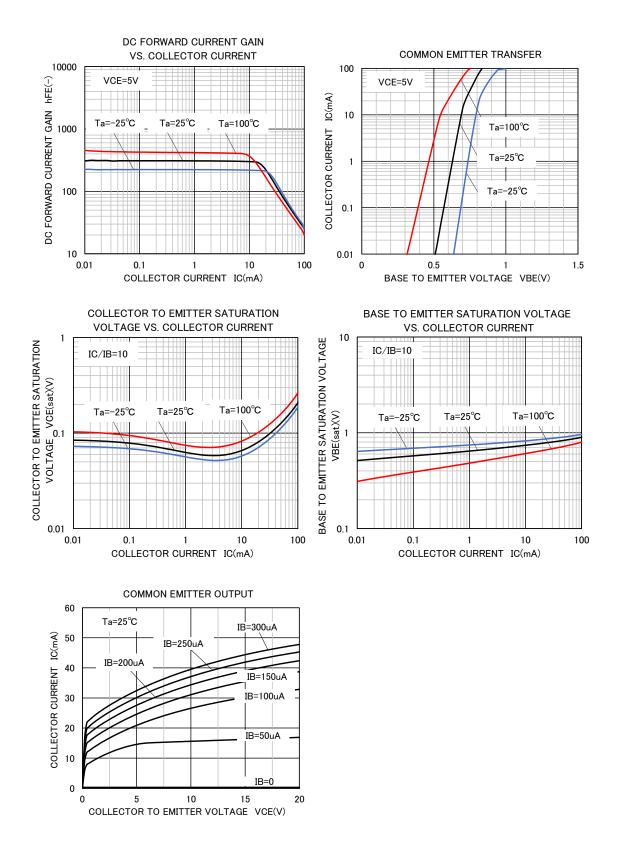
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			LINIT
			MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B breakdown voltage	I c=100 μ A, I ε=0	180	-	-	V
V _{(BR)EBO}	E to B breakdown voltage	I _ε =10 μ A, I _c =0	6	-	-	٧
V _{(BR)CEO}	C to E breakdown voltage	I c=1mA, R _{BE} =∞	160	-	-	V
I_{CBO}	Collector cut off current	V _{CB} =120V, I _E =0	-	-	100	nA
I _{EBO}	Emitter cut off current	V _{EB} =5V, I _C =0	-	-	100	nA
hFE1	DC forward current gain1	VCE=5V, I c=1mA	150	-	-	-
hFE2	DC forward current gain2	VCE=5V, I c=10mA	200	-	500	-
hFE3	DC forward current gain3	VCE=5V, I c=50mA	27	-	-	-
VCE(sat)	C to E saturation voltage	I c=10mA, I _B =1mA	-	-	0.15	٧
VBE(sat)	B to E saturation voltage	I c=10mA, I _B =1mA	-	-	1.0	V
fT	Gain bandwidth product	VCE=10V, I _E =-10mA	100	-	300	MHz
Cob	Collector output capacitance	VCB=10V, I _E =0, f=1MHz	_	1.7	6	pF

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TYPICAL CHARACTERISTICS



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