

INC6017AM1-TH50

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

INC6017AM1 is a silicon NPN transistor.
It is designed with high voltage.

FEATURE

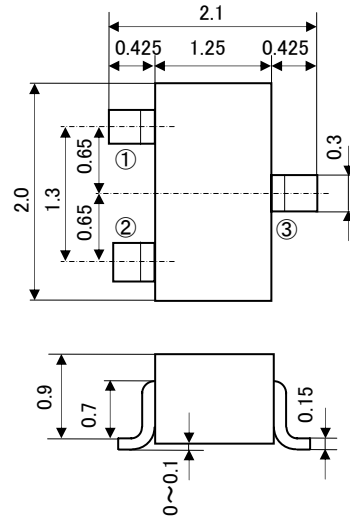
- Small package for easy mounting.
- High voltage $V_{CEO} = 160V$
- Low voltage $V_{CE(sat)} = 0.15V(MAX)$

APPLICATION

High voltage switching.

OUTLINE DRAWING

UNIT : mm



Terminal Connector

JEITA: SC-70

JEDEC: -

①: Base

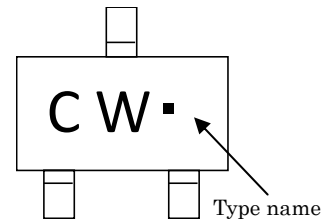
②: Emitter

③: Collector

MAXIMUM RATING ($T_a=25^{\circ}C$)

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
I_C	Collector current	100	mA
P_C	Collector dissipation($T_a=25^{\circ}C$)	200	mW
T_j	Junction temperature	+150	$^{\circ}C$
T_{stg}	Storage temperature	-55~+150	$^{\circ}C$

MARKING



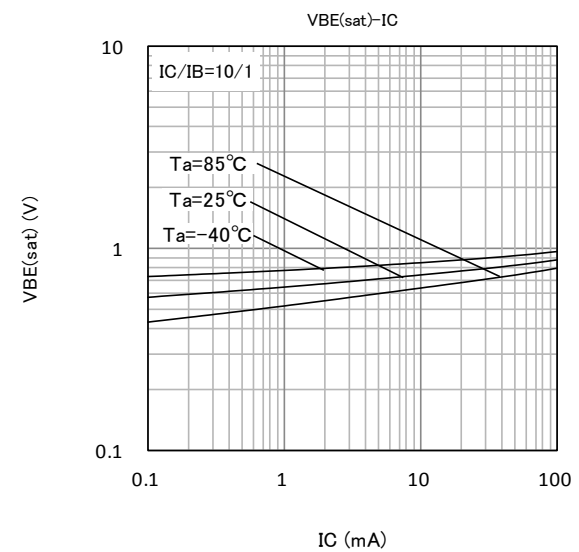
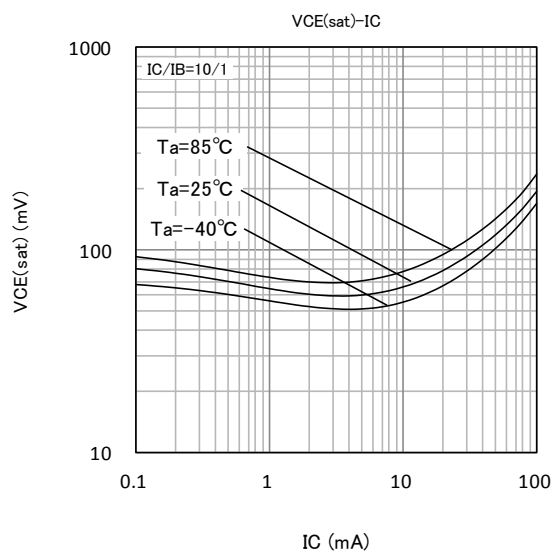
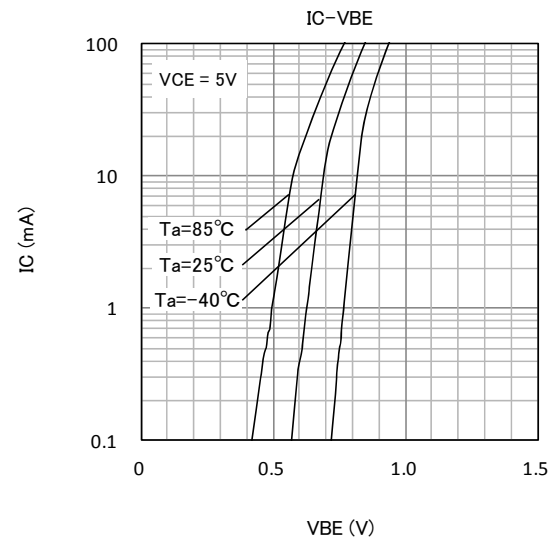
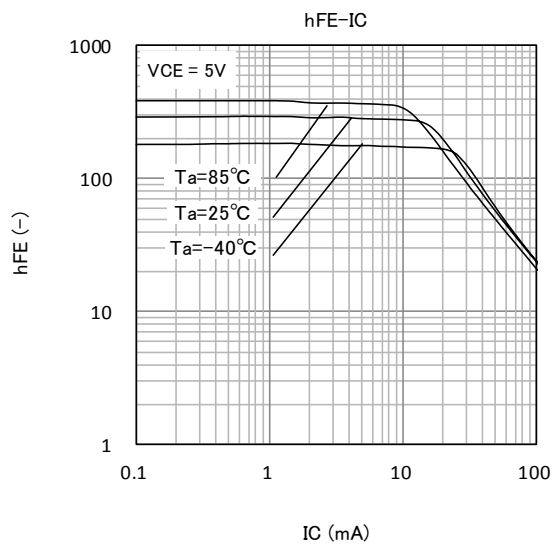
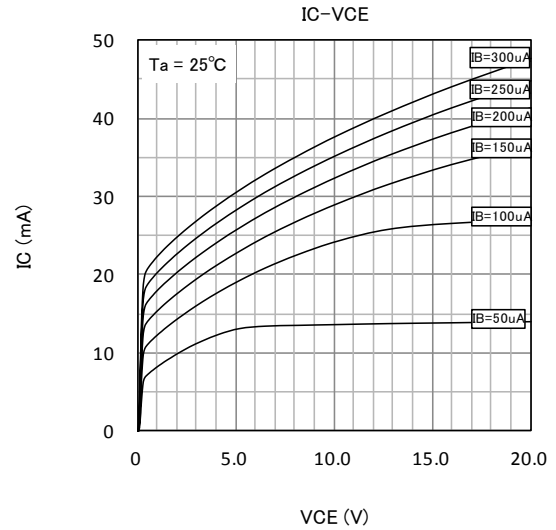
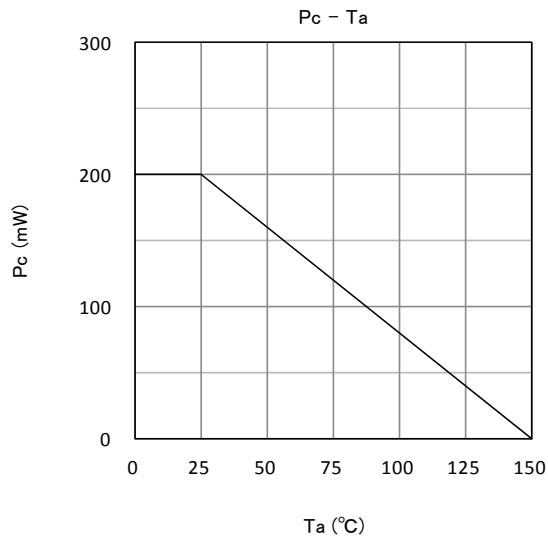
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B breakdown voltage	$I_C=100\mu A, I_E=0$	180	-	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E=10\mu A, I_C=0$	6	-	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	$I_C=1mA, R_{BE}=\infty$	160	-	-	V
I_{CBO}	Collector cut off current	$V_{CB}=120V, I_E=0$	-	-	100	nA
I_{EBO}	Emitter cut off current	$V_{EB}=4V, I_C=0$	-	-	100	nA
hFE1	DC forward current gain1	$V_{CE}=5V, I_C=1mA$	150	-	-	-
hFE2	DC forward current gain2	$V_{CE}=5V, I_C=10mA$	200	-	500	-
hFE3	DC forward current gain3	$V_{CE}=5V, I_C=50mA$	27	-	-	-
$V_{CE(sat)}$	C to E saturation voltage	$I_C=10mA, I_B=1mA$	-	-	0.15	V
$V_{BE(sat)}$	B to E saturation voltage	$I_C=10mA, I_B=1mA$	-	-	1.0	V
fT	Gain bandwidth product	$V_{CE}=10V, I_E=-10mA$	100	-	300	MHz
Cob	Collector output capacitance	$V_{CB}=10V, I_E=0, f=1MHz$	-	1.7	6	pF

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TYPICAL CHARACTERISTICS





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