

2SA1603A

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE(Super mini type)

DESCRIPTION

2SA1603A is a super mini package resin sealed
silicon PNP epitaxial transistor,
It is designed for low frequency voltage application.

FEATURE

- Small collector to emitter saturation voltage.
 $V_{CE(sat)} = -0.3V$ max
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting

APPLICATION

For Hybrid IC, small type machine low frequency voltage
Amplify application.

MAXIMUM RATINGS ($T_a = 25^\circ C$)

Symbol	Parameter	Ratings	Unit
V_{CBO}	Collector to Base voltage	-60	V
V_{CEO}	Collector to Emitter voltage	-50	V
V_{EBO}	Emitter to Base voltage	-6	V
I_O	Collector current	-150	mA
P_c	Collector dissipation	200	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55 ~ +150	$^\circ C$

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

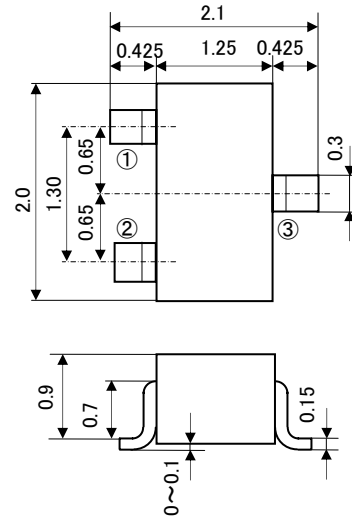
Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	$V(BR)_{CEO}$	$I_C = -100 \mu A, R_{BE} = \infty$	-50	-	-	V
Collector cut off current	I_{CBO}	$V_{CB} = -60V, I_E = 0mA$	-	-	-0.1	μA
Emitter cut off current	I_{EBO}	$V_{EB} = -6V, I_C = 0mA$	-	-	-0.1	μA
DC forward current gain	hFE	$V_{CE} = -6V, I_C = -1mA$ ※	120	-	560	
DC forward current gain	hFE	$V_{CE} = -6V, I_C = -0.1mA$	70	-	-	
C to E Saturation Voltage	$V_{CE(sat)}$	$I_C = -30mA, I_B = -1.5mA$	-	-	-0.3	V
Gain bandwidth product	fT	$V_{CE} = -6V, I_E = 10mA$	-	200	-	MHz
Collector output capacitance	Cob	$V_{CB} = -6V, I_E = 0, f = 1MHz$	-	2.5	-	pF

※) It shows hFE classification in below table.

Item	Q	R	S
h F E Item	120~270	180~390	270~560

OUTLINE DRAWING

Unit: mm



JEITA: SC-70

TERMINAL CONNECTER

- ①: BASE
②: EMITTER
③: COLLECTOR



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