# 2SC5938A

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

#### DESCRIPTION

ISAHAYA 2SC5938A is a super mini package resin sealed silicon NPN epitaxial transistor for muting and switching. application

### FEATURE

High Emitter to Base voltage VEBO=40V

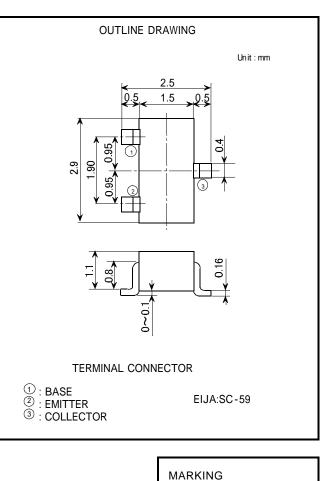
High Reverse hFE

Low ON RESISTANCE. RON=1

Small packege for mounting

#### APPLICATION

For muting, switching application



TYPE NAME

hFE ITEM

#### MAXIMUM RATINGS (Ta=25 )

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	50	V
Vceo	Collector to Emitter voltage	20	V
Vebo	Emitter to Base voltage	40	V
Ic	Collector current	200	mA
Pc	Collector dissipation	150	mW
Tj	Junction temperature	+125	
Tstg	Storage temprature	-55 ~ +125	

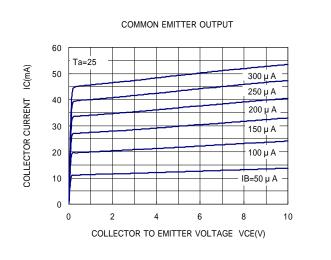
#### ELECTRICAL CHARACTERISTICS (Ta=25)

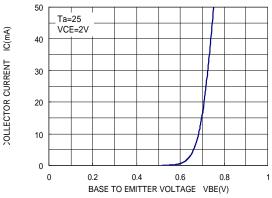
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	
I CBO	Collector cut off current	VCB=50V, I E=0mA			0.1	μA
I EBO	Emitter cut off current	VEB=40V, IC=0mA			0.1	μA
hFE	DC forward current gain	VCE=2V, I C=4mA	200		1200	
VCE(sat)	C to E saturation voltage	I с=30mA, I в=3mA		30		mV
f⊤	Gain bandwidth product	VCE=6V, I C=4mA		30		MHz
Cob	Collector output capacitance	VCB=10V, I E=0mA, f=1MHz		5.0		pF
				Item	A	В
				hFE	200 to 700	350 to 1200
				Marking	9A	9B

## ISAHAYA ELECTRONICS CORPORATION

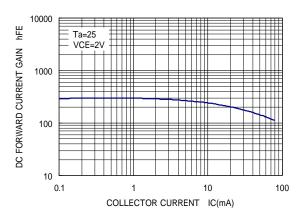
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COMMON EMITTER TRANSFER

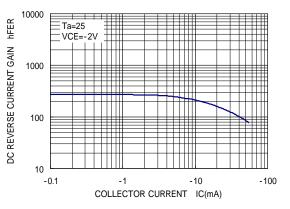




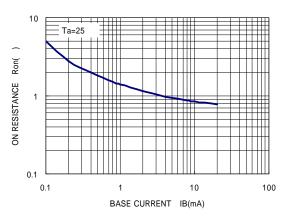
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



DC REVERSE CURRENT GAIN VS. COLLECTOR CURRENT



ON RESISTANCE VS. BASE CURRENT



1

10

COLLECTOR CURRENT IC(mA)

100

COLLECTOR TO EMITTER SATURATION VOLTAGE

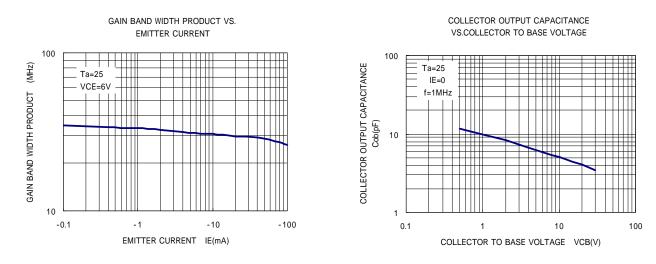
VS. COLLECTOR CURRENT

ISAHAYA ELECTRONICS CORPORATION

1000

0.1

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ISAHAYA ELECTRONICS CORPORATION



Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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