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2SC5938

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

ISAHAYA 2SC5938 is a super mini package resin sealed silicon NPN epitaxial transistor for muting and switching. application

FEATURE

High Emitter to Base voltage VEBO=50V

High Reverse hFE

Low ON RESISTANCE. RON=1

Small packege for mounting

APPLICATION

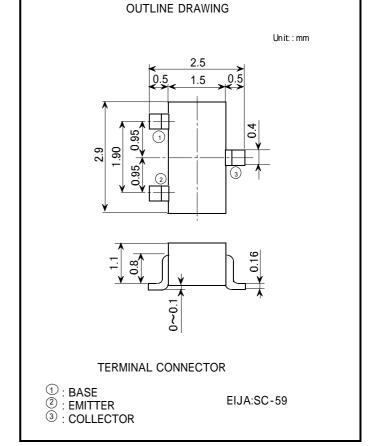
For muting, switching application

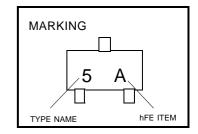
MAXIMUM RATINGS (Ta=25)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	50	V
Vceo	Collector to Emitter voltage	12	V
Vebo	Emitter to Base voltage	50	V
Ιc	Collector current	200	mA
Pc	Collector dissipation	150	mW
Tj	Junction temperature	+125	
Tstg	Storage temprature	-55 ~ +125	

ELECTRICAL CHARACTERISTICS (Ta=25)

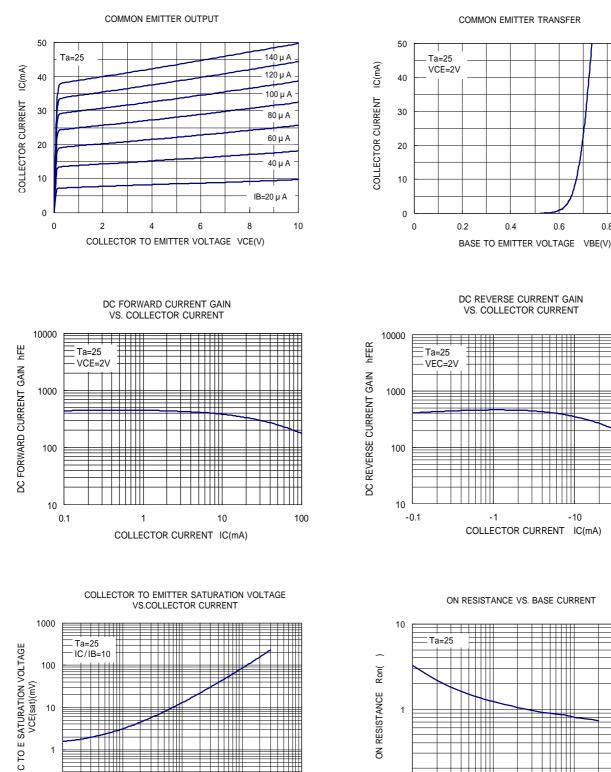
Symbol	Parameter	Test conditions	Limits			Unit
- ,			Min	Тур	Max	
I сво	Collector cut off current	VCB=50V, I E=0mA			0.1	μA
I EBO	Emitter cut off current	VEB=50V, IC=0mA			0.1	μA
hFE	DC forward current gain	VCE=2V, I C=4mA	200		1200	
VCE(sat)	C to E saturation voltage	I с=30mA, I в=3mA		30		mV
f⊤	Gain 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	5A	5B





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COMMON EMITTER TRANSFER

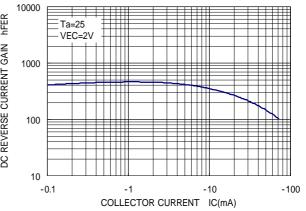
DC REVERSE CURRENT GAIN VS. COLLECTOR CURRENT

0.4

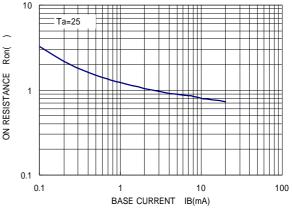
0.6

0.8

1



ON RESISTANCE VS. BASE CURRENT



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1

0.1

0.1

1

10

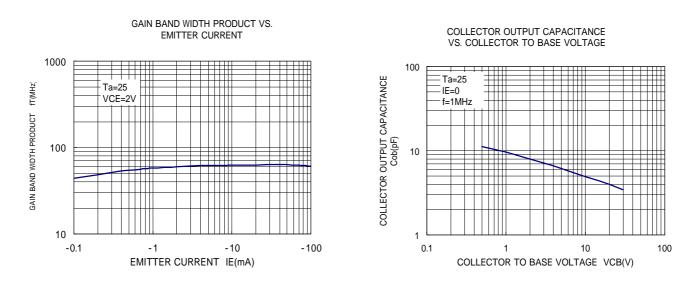
COLLECTOR CURRENT IC(mA)

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1000

100

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