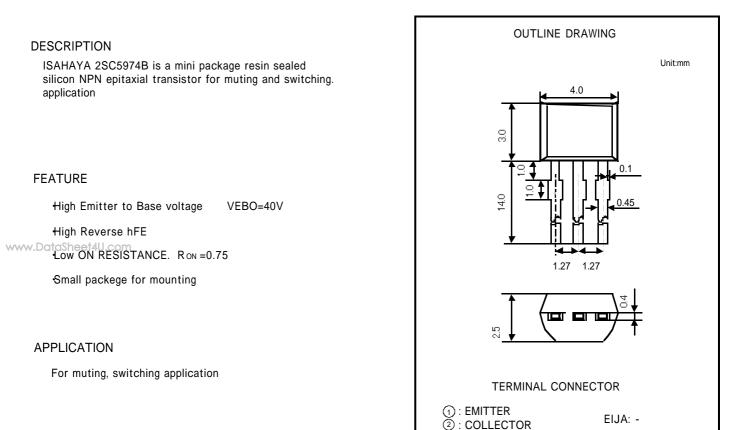
SMALL-SIGNAL TRANSISTOR



FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE



3 : BASE

MAXIMUM RATINGS (Ta=25)

HULINUWHII Notice This is not a first specification

PERMINARY

diarise

Nouce This is not a nrai specification Some parametric limits are subjuct to

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	40	V
Vceo	Collector to Emitter voltage	9	V
VEBO	Emitter to Base voltage	40	V
Ιc	Collector current	200	mA
Pc	Collector dissipation	450	mW
Tj	Junction temperature	+125	
Tstg	Storage temprature	-55 ~ +125	

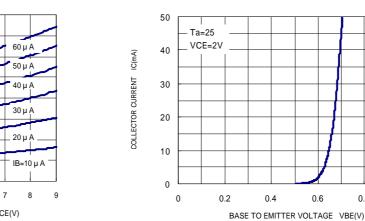
ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	[Тур	Max	T
І сво	Collector cut off current	VCB=40V, I E=0mA			0.1	μA
I EBO	Emitter cut off current	VEB=40V, IC=0mA			0.1	μA
h FE	DC forward current gain	VCE=2V, I C=4mA	700		2200	
VCE(sat)	C to E saturation voltage	I с=30mA, I в=3mA		25		mV
fт	Gain bandwidth product	Vce=6V, I c=4mA		150		MHz
Cob	Collector output capacitance	VCB=10V, I E=0mA, f=1MHz		3.0		pF

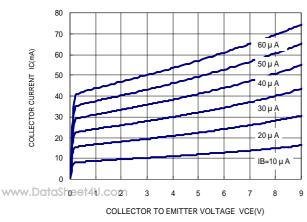
SMALL-SIGNAL TRANSISTOR

2SC5974B FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

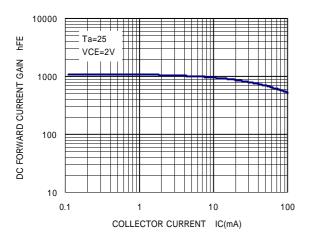




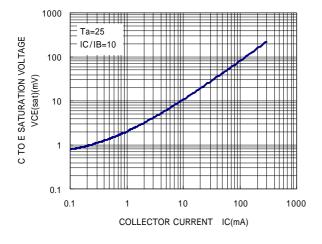
COMMON EMITTER OUTPUT



DC FORWARD CURRENT GAIN VS.COLLECTOR CURRENT



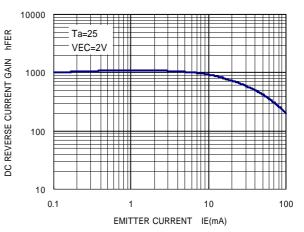
COLLECTOR TO EMITTER SATURATION VOLTAGE VS, COLLECTOR CURRENT



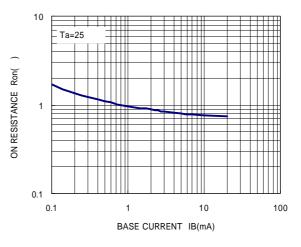
DC REVERSE CURRENT GAIN VS.COLLECTOR CURRENT

0.8

1

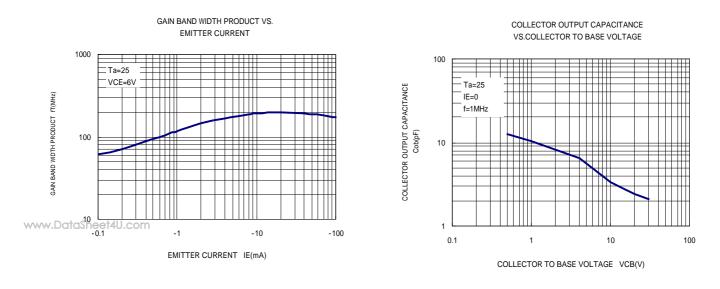


ON RESISTANCE VS.BASE CURRENT



ISAHAYA ELECTRONICS CORPORATION

2SC5974B FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE



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