2SA1530A

For Low Frequency Amplify Application Silicon PNP Epitaxial Type (Mini type)

DESCURIPTION

2SA1530A is a super mini packege resin sealed silicon PNP epitaxial type transistor. It is designed for low frequency voltage amplify application.

FEATURE

- Small collector to emitter saturation voltage VCE(sat)=-0.3V max
- · Excellent lineality of DC forward current gain
- · Supper mini package for easy mounting

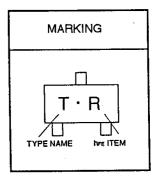
APPLICATION

For hybrid IC, small type machine low frequency voltage amplify application.

TERMINAL CONNECTOR ①: BASE ②: EMITTER ②: COLLECTOR Unit:mm Unit:mm Unit:mm

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit	
Vсво	Collector to Base voltage	-60	V	
VEBO	Emitter to Base voltage	-6	V	
VCEO	Collector to Emitter voltage	-50	V	
1 c	Collector current	-150	mA	
Pc	Collector dissipation(Ta=25°C)	200	mW	
Tj	Junction temperature	+125	°C	
Tstg	Storage temprature	-55to+125	°C	



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	-
V(BR)CEO	C to E break down voltage	I C=-100 μ A, RBE=∞	-50			V
СВО	Collector cut cff current	Vc8= -60V, I E=0			-0.1	μА
I EBO	Emitter cut off current	VEB=-4V, 1 C=0			-0.1	μΑ
hFE *	DC forward current gain	Vce=-6V, I c=-1mA	120		560	_
hFE	DC forward current gain	Vce=-6V, I c=-0.1mA	70			_
VCE(sat)	C to E Saturation voltage	I C=-100mA, I B=-10mA			-0.3	V
fτ	Gain band width product	VcE=-6V, I E=10mA		200		MHz
Cob	Collector output capacitance	VcB=-6V, I E=0, f=1MHz		4		pF
NF	Noise figure	VcE=-6V, I E=0.3mA, f=100Hz,RG=10kΩ			20	dB

*: It shows her claccification in right table.

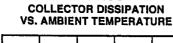
ITEM	Q	R	S
hFE	120~270	180~390	270~560

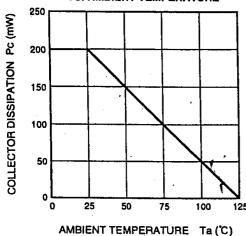
(Transistor)

2SA1530A

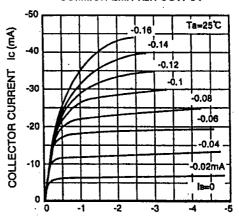
For Low Frequency Amplify Application Silicon PNP Epitaxial Type (Mini type)

TYPICAL CHARACTERISTICS



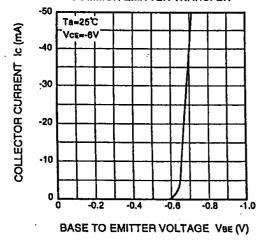


COMMON EMITTER OUTPUT

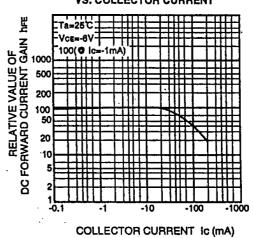


COLLECTOR TO EMITTER VOLTAGE VCE (V)

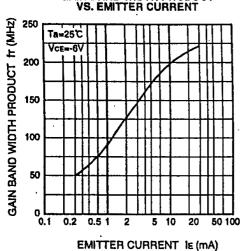
COMMON EMITTER TRANSFER



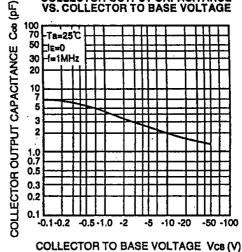
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE





http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

Keep safety in your circuit designs!

Isahaya Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of non-flammable material or (iii) prevention against any malfunction or mishap.

Notes regarding these materials

•These materials are intended as reference to assist out customers in the selection of the Isahaya semiconductor product best suited to the customer's application, they do not convey any license under any intellectual property rights, or any other rights, belonging to Isahaya Electronics Corporation or a third party.

Isahaya Electronics Corporation assumes no responsibility for any damage, or infringement of any third-party rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in the materials.

All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by Isahaya Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact Isahaya Electronics Corporation or authorized Isahaya Semiconductor product distributor for the latest product information before purchasing a product listed herein.

The prior written approval of Isahaya Electronics Corporation is necessary to reprint or reproduce in whole or in part these materials.

If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.

Please contact Isahaya Electronics Corporation or an authorized Isahaya Semiconductor product distributor for further details on these materials or the products contained therein.