imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



2SA1534, 2SA1534A

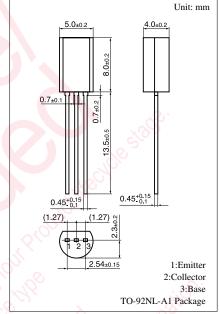
Silicon PNP epitaxial planer type

For low-frequency power amplification and driver amplification Complementary to 2SC3940 and 2SC3940A

Features

- Complementary pair with 2SC3940 and 2SC3940A.
- Allowing supply with the radial taping and automatic insertion possible.

Absolute Maximum Ratings (Ta=25°C)						
Parameter		Symbol	Ratings	Unit		
Collector to	2SA1534	V	-30	V		
base voltage	2SA1534A	V _{CBO}	-60	V		
Collector to	2SA1534	N	-25	N.		
emitter voltage	2SA1534A	V _{CEO}	-50	V		
Emitter to base voltage		V _{EBO}	-5	v		
Peak collector current		I _{CP}	-1.5	А		
Collector current		I _C	-1	A		
Collector power dissipation		P _C	1	w		
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 ~ +150	SC V		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					



Absolute Maximum Ratings (Ta=25°C

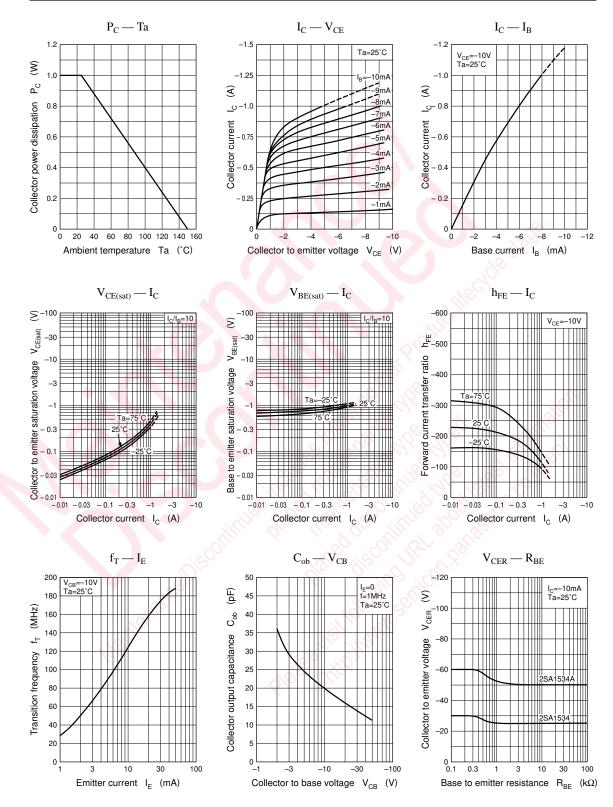
Electrical Characteristics (Ta=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I _{CBO}	$V_{CB} = -20V, I_E = 0$			- 0.1	μΑ
Collector to base	2SA1534						N
voltage	2SA1534A	V _{CBO}	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	60			V
Collector to emitter	2SA1534	N		-25			- V
voltage	2SA1534A	V _{CEO}	$I_{\rm C} = -2mA, I_{\rm B} = 0$	-50			
Emitter to base voltage		V _{EBO}	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio		h _{FE1} *	$V_{CE} = -10V, I_C = -500mA$	85		340	
		h _{FE2}	$V_{CE} = -5V, I_C = -1A$	50			
Collector to emitter saturation voltage V _{CE(sa}		V _{CE(sat)}	$I_{C} = -500 \text{mA}, I_{B} = -50 \text{mA}$		- 0.2	- 0.4	V
		V _{BE(sat)}	$I_{\rm C} = -500 {\rm mA}, I_{\rm B} = -50 {\rm mA}$		- 0.85	-1.2	V
Transition frequency f ₁		f _T	$V_{CB} = -10V, I_E = 50mA, f = 200MHz$		200		MHz
Collector output capacitance C _{ot}		C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		20	30	pF

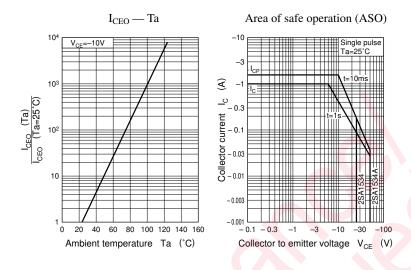
*hFE1 Rank classification

Rank	Q	R	S
h _{FE1}	85 ~ 170	120 ~ 240	170 ~ 340

Transistor



Transistor



Request for your special attention and precautions in using the technical information and semiconductors described in this book

- (1) If any of the products or technical information described in this book is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially, those with regard to security export control, must be observed.
- (2) The technical information described in this book is intended only to show the main characteristics and application circuit examples of the products, and no license is granted under any intellectual property right or other right owned by our company or any other company. Therefore, no responsibility is assumed by our company as to the infringement upon any such right owned by any other company which may arise as a result of the use of technical information described in this book.
- (3) The products described in this book are intended to be used for standard applications or general electronic equipment (such as office equipment, communications equipment, measuring instruments and household appliances).
 - Consult our sales staff in advance for information on the following applications:
 - Special applications (such as for airplanes, aerospace, automobiles, traffic control equipment, combustion equipment, life support systems and safety devices) in which exceptional quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or harm the human body.
 - Any applications other than the standard applications intended.
- (4) The products and product specifications described in this book are subject to change without notice for modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.
- (5) When designing your equipment, comply with the range of absolute maximum rating and the guaranteed operating conditions (operating power supply voltage and operating environment etc.). Especially, please be careful not to exceed the range of absolute maximum rating on the transient state, such as power-on, power-off and mode-switching. Otherwise, we will not be liable for any defect which may arise later in your equipment.
- Even when the products are used within the guaranteed values, take into the consideration of incidence of break down and failure mode, possible to occur to semiconductor products. Measures on the systems such as redundant design, arresting the spread of fire or preventing glitch are recommended in order to prevent physical injury, fire, social damages, for example, by using the products.
- (6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.
- (7) This book may be not reprinted or reproduced whether wholly or partially, without the prior written permission of Matsushita Electric Industrial Co., Ltd.