#### 查询2SC4432供应商

## Ordering number : ENN3184A

NPN Epitaxial Planar Silicon Transistor



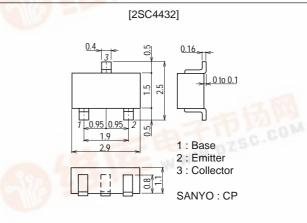
## **Features**

- High power gain.
- High cutoff frequency.
- Small Cob, Cre.
- Ultrasmall-sized package permitting the 2SC4432-WWW.DZSC.COM applied sets to be made small and slim.

# Package Dimensions

unit : mm





# **Specifications**

### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit	
Collector-to-Base Voltage	VCBO		40	V	
Collector-to-Emitter Voltage	VCEO		18	V	
Emitter-to-Base Voltage	VEBO		3	V	
Collector Current	IC		50	mA	
Collector Dissipation	PC		250	mW	
Junction Temperature	Tj		150	°C	
Storage Temperature	Tstg		-55 to +150	°C	

### Electrical Characteristics at Ta=25°C

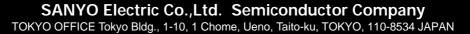
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ІСВО	V <sub>CB</sub> =18V, I <sub>E</sub> =0			0.1	μΑ
Emitter Cutoff Current	IEBO	VEB=2V, IC=0			0.1	μΑ
DC Current Gain	hFE	VCE=10V, IC=5mA	60*		270*	15A
Gain-Bandwidth Product	fT	V <sub>CE</sub> =10V, I <sub>C</sub> =5mA		750	24	MHz
Output Capacitance	Cob	VCB=10V, f=1MHz		0.7	1.2	pF
Reverse Transfer Capacitance	Cre	V <sub>CB</sub> =10V, f=1MHz	and the	0.45	0250	pF
Aarking : RT			None i	C	ontinued on	next pag

 $^{\star}$  : The 2SC4432 is classified by 5mA hFE as follows :

Rank	3	4	5		
hFE	60 to 120	90 to 180	135 to 270		

Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.

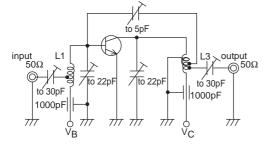
SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.



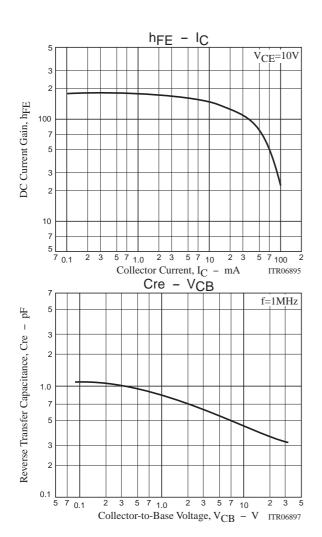
Continued from preceding page.

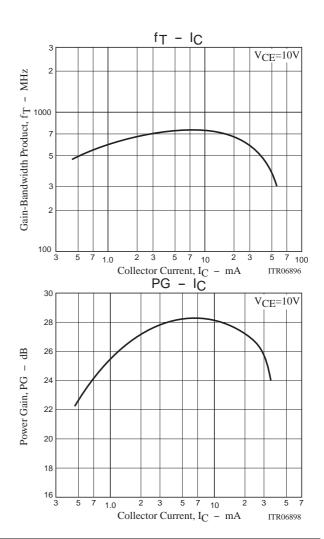
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=10mA, IB=1mA			0.2	V
Base-to-Collector Time Constant	r <sub>bb</sub> 'CC	V <sub>CE</sub> =10V, I <sub>C</sub> =5mA, f=31.9MHz			23	ps
Power Gain	PG	V <sub>CE</sub> =10V, I <sub>C</sub> =10mA, f=100MHz		28		dB

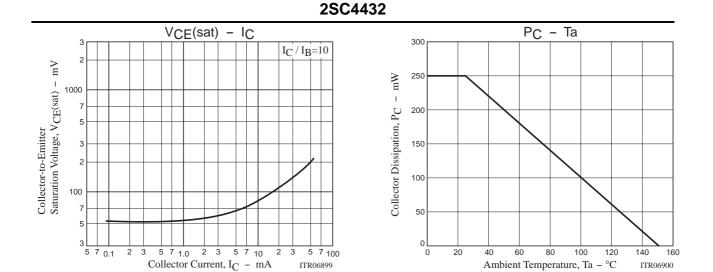
## **PG Test Circuit**



- L1 : 1mmø plated wire, 10mmø 5T, pitch 15mm, tap : 2T from base side
- L2 : 1mmø plated wire, 10mmø 7T, pitch 10mm, tap : 2T from V<sub>C</sub> side
- L3 : 1mmø enamel wire, 10mmø 3T, pitch 10mm







- Specifications of any and all SANYO products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- SANYO Electric Co., Ltd. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. It is possible that these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error prevention circuits for safe design, redundant design, and structural design.
- In the event that any or all SANYO products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of SANYO Electric Co., Ltd.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the SANYO product that you intend to use.
- Information (including circuit diagrams and circuit parameters) herein is for example only ; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of December, 2001. Specifications and information herein are subject to change without notice.