NPN Planar Silicon Transistor



2SC3294

2.7

1 : Base 2 : Collector

3 : Emitter

Driver Applications

Package Dimensions

[25 32:

JEDEC : TO-220AB

· SC-46

FIAJ

unit:mm

2010C

Applications

• Suitable for use in switching of L load (motor drivers, printer hammer drivers, relay drivers).

Features

- · High DC current gain.
- · Large current capacity and wide ASO.
- \cdot On-chip Zener diode of 60±10V between collector and base.
- Uniformity in collector-to-base breakdown voltage due to adoption of accurate impurity diffusion process.
- · High inductive load handling capability.

Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCPO		50*	V
Collector-to-Emitter Voltage	V _{/JE} J		50*	V
Emitter-to-Base Voltage	VF_BO		6	V
Collector Current	IC		3	А
Collector Current (Pulse)	ICP		6	А
Base Current			0.6	А
Collector Dissipation	ີ	C	25	W
Junction Temperature	ΤΙ	11	150	°C
Storage Temperature	Tsı		-55 to +150	°C
* : With Zener diode (60±10V)				

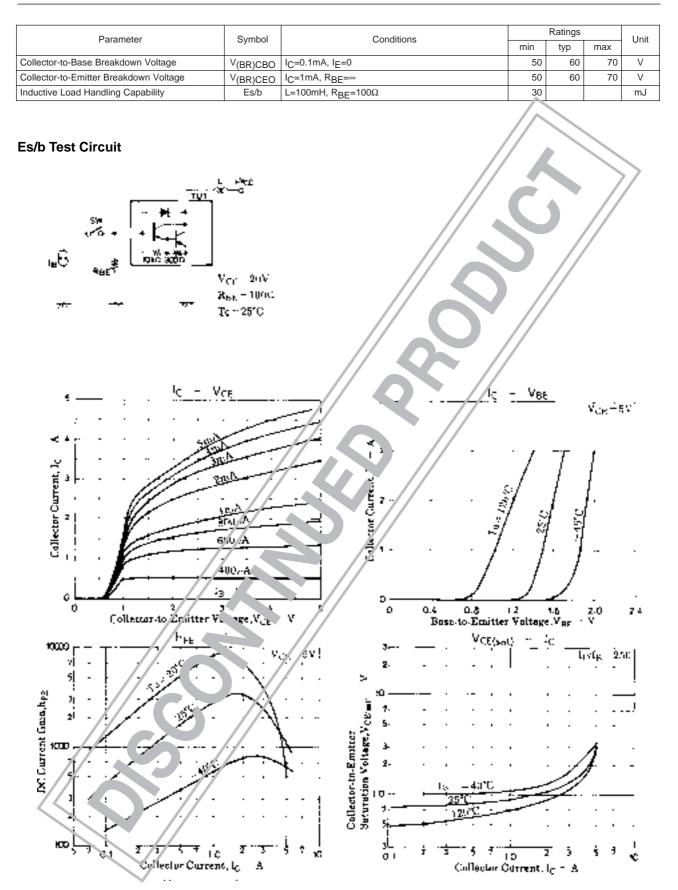
Electrical Characteristics at Ta 25

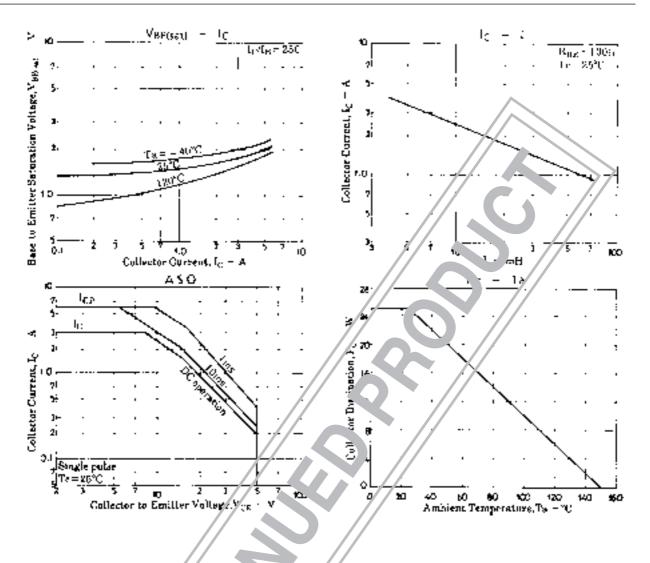
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Collector Cutoff Curren	ICEO	V _{CB} =40V, I _E =0			10	μΑ
Emitter Cutoff Current	12BQ	V _{EB} =5V, I _C =0			2	mA
DC Current Gain	h/FE	V _{CE} =5V, I _C =1.5A	1000	4000		
Gain-Bandwidt ⁺ , P [•] oduct	fT	V _{CE} =5V, I _C =1.5A		180		MHz
Collector-to-F_milter Sature or Jita >	VCE(sat)	I _C =1.5A, I _B =6mA		1.0	1.5	V
Base-to-Ernit'er Satura. Volta	V _{BE(sat)}	I _C =1.5A, I _B =6mA			2.0	V

Any an all SAN7C 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 SANYC 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.

SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN





- Specifications of any and all SA YC root is described or contained herein stipulate the performance, characteristics, and functions c e described products in the independent state, and are not guarantees of the performance characteristics. If functions cf 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 alway available and test devices mounted in the customer's products or equipment.
- SANYO Electric Co., Ltd st. es to supriy nigh-quality high-reliability products. However, any and all semiconductor projects is with some probability. It is possible that these probabilistic failures could give rise to accidene or events that could endanger human lives, that could give rise to smoke or fire, or that could ce on to other property. When designing equipment, adopt safety measures so that these kind of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error provenion circuits for safe design, redundant design, and structural design.
- In the event that any or all SANYO products (including technical data, services) described or containe the ell are controlled under any of applicable local export control laws and regulations, such products just not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- N' oart o. his publication may be reproduced or transmitted in any form or by any means, electronic or mechnic it, including photocopying and recording, or any information storage or retrieval system, or other use, 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 SANY O 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 November, 1998. Specifications and information herein are subject to change without notice.

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.