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



Silicon Bi-directional Trigger Device

BR100/03

GENERAL DESCRIPTION

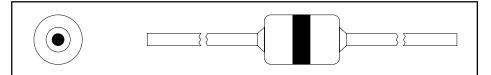
Silicon bidirectional trigger device in a glass envelope intended for use in triac and thyristor trigger circuits.

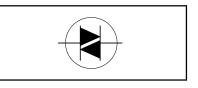
QUICK REFERENCE DATA

SYMBOL	PARAMETER	MIN.	MAX.	UNIT	
V _(BO)	Breakover voltage	28	36	V	
V _O	Output voltage	7	-	V	
I _{FRM}	Repetitive peak forward current	-	2	A	

SYMBOL

OUTLINE - SOD27





LIMITING VALUES

Limiting values in accordance with the Absolute Maximum System (IEC 134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
I _{FRM}	Repetitive peak forward current	$t \leq 10 \ \mu s, \ T_a \leq 50 \ ^\circ C; \ f = 60 \ Hz$	-	2	A
$ \begin{array}{c} P_{tot} \\ T_{stg} \\ T_{j} \end{array} $	Total power dissipation Storage temperature Operating junction temperature	$T_a = 50^{\circ}C$	-55 -	150 125 100	m₩ ℃ ℃

THERMAL RESISTANCES

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
R _{th j-a} R _{th j-lead}	Thermal resistance junction to ambient Thermal resistance junction to		-	330 150	-	K/W K/W
	leads					

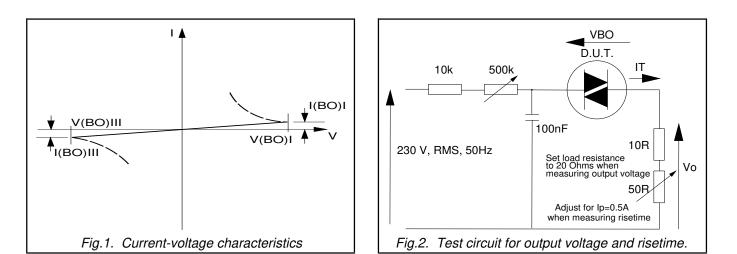
CHARACTERISTICS

 $T_a = 25$ °C unless otherwise stated.

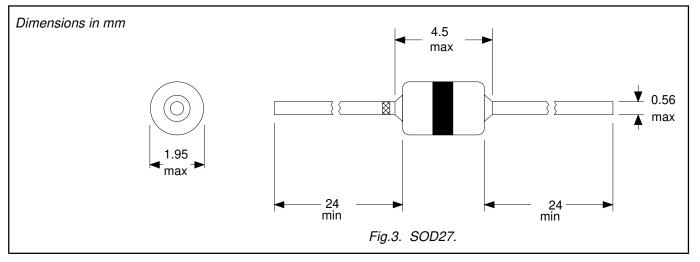
SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
$\begin{matrix} V_{(BO)} \\ V_{(BO)+} - V_{(BO)-} \\ V_O \\ I_{(BO)} \\ dV_{(BO)}/dT \end{matrix}$	Breakover voltage Breakover voltage symmetry Output voltage Breakover current Temperature coefficient of	$ \begin{array}{l} I = I_{(BO)} \\ I = I_{(BO)}, see fig: 1 \\ R_L = 20 \; \Omega; Circuit of fig: 2 \\ V = V_{(BO)} \end{array} $	28 - 7 -	32 - - 0.1	36 3.5 - 50 -	V V μΑ %/K
t _r	V _(BO) Risetime	$I_p = 0.5 A$; Circuit of fig: 2	-	1.5		μs

Silicon Bi-directional Trigger Device

BR100/03



MECHANICAL DATA



Silicon Bi-directional Trigger Device

BR100/03

DEFINITIONS

Data sheet status			
Objective specification	This data sheet contains target or goal specifications for product development.		
Preliminary specification	This data sheet contains preliminary data; supplementary data may be published later		
Product specification	This data sheet contains final product specifications.		
Limiting values			
Limiting values are given in accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of this specification is not implied. Exposure to limiting values for extended periods may affect device reliability.			
Application information			
Where application information is given, it is advisory and does not form part of the specification.			
© Philips Electronics N.	.V. 1997		
All rights are reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner.			

The information presented in this document does not form part of any quotation or contract, it is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights.

LIFE SUPPORT APPLICATIONS

These products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Philips customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Philips for any damages resulting from such improper use or sale.