Silicon Bi-directional Trigger Device

BR100/03

GENERAL DESCRIPTION

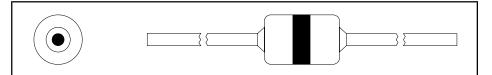
Silicon bidirectional trigger device in a glass envelope intended for use in triac and thyristor trigger circuits.

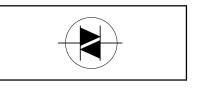
QUICK REFERENCE DATA

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} P _{tot}	Repetitive peak forward current Total power dissipation	t \leq 10 µs, T _a \leq 50°C; f = 60 Hz T _a = 50°C	-	2 150	A mW
T _{stg} T _j	Storage temperature Operating junction temperature		-55 -	125 100	°C °C

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 leads		-	330 150	-	K/W K/W

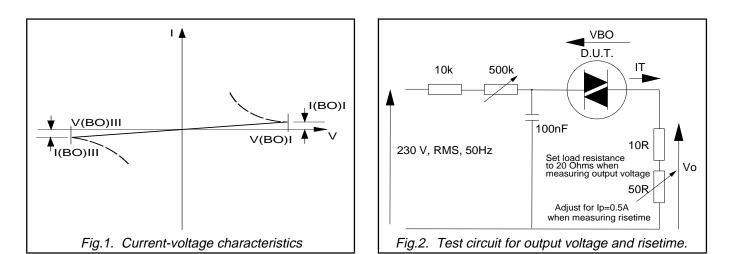
CHARACTERISTICS

 $T_a = 25$ °C unless otherwise stated.

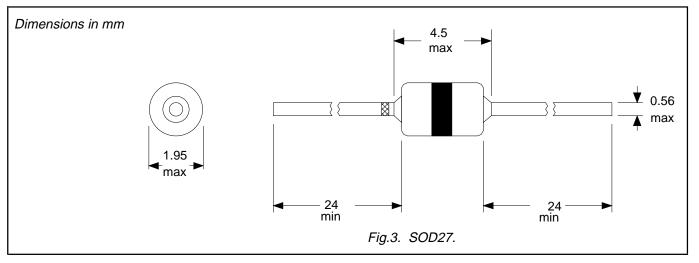
SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
$ \begin{array}{ c c c c c } V_{(BO)} & V_{(BO)+} & - & V_{(BO)-} \\ V_{O} & & I_{(BO)} \\ I_{(BO)} & dV_{(BO)} / dT \end{array} $	Breakover voltage Breakover voltage symmetry Output voltage Breakover current Temperature coefficient of		28 - 7 -	32 - - 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

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MECHANICAL DATA



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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.			
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