

1 Characteristics

Table 1. Absolute maximum ratings (limiting values), T_j = 25 °C unless otherwise specified

Symbol	Parameter	Value	Unit
I _{TRM}	Repetitive peak on-state current, t _p = 20 μs, F = 120 Hz	2.00	Α
T _{stg}	Storage junction temperature range		°C
Tj	Operating junction temperature range	-40 to +125	°C

Table 2. Electrical characteristics (T_j = 25 °C unless otherwise specified)

Symbol	Parameter	Test conditions		Value	Unit
			Min.	30	
V _{BO}	Breakover voltage (1)	C = 10 nF ⁽²⁾	Тур.	32	V
			Max.	34	
I V _{BO1} - V _{BO2} I	Breakover voltage symmetry	C = 10 nF (2)	Max.	2	V
Δ٧	Dynamic breakover voltage (1)	V _{BO} and V _F at 10 mA	Min.	9	V
Vo	Output voltage (1)	See Figure 2. Test circuit, (R = 20 Ω)	Min.	5	V
I _{BO}	Breakover current (1)	C = 10 nF ⁽²⁾	Max.	15	μA
t _r	Rise time (1)	See Figure 3. Rise time measurement	Max.	2	μs
I _R	Leakage current (1)	V _R = 0.5 x V _{BO} max	Max.	10	μA
I _P	Peak current (1)	See Figure 2. Test circuit	Min.	0.30	Α

^{1.} Applicable to both forward and reverse directions.

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^{2.} Connected in parallel to the device



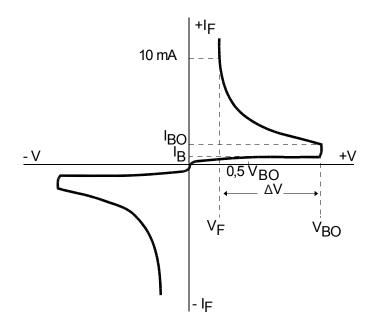
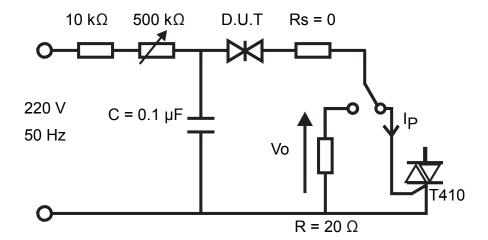


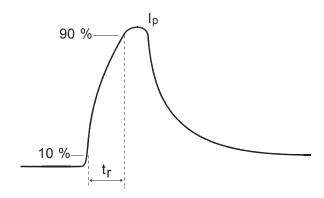
Figure 2. Test circuit



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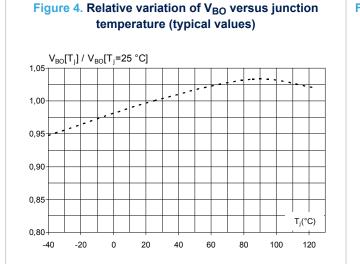




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1.1 Characteristics (curves)



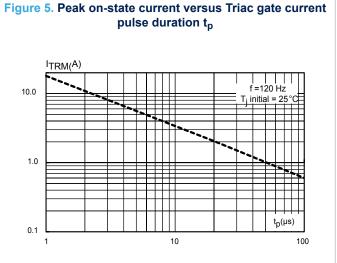
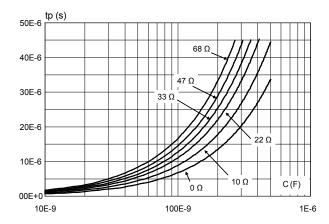


Figure 6. Triac gate current pulse duration t_p (to have $I_P > 50$ mA) versus Rs and C values (typical values)



Note: according to Figure 2. Test circuit

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2 Package information

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK packages, depending on their level of environmental compliance. ECOPACK specifications, grade definitions and product status are available at: www.st.com. ECOPACK is an ST trademark.

2.1 DO-35 package information

Figure 7. DO-35 package outline

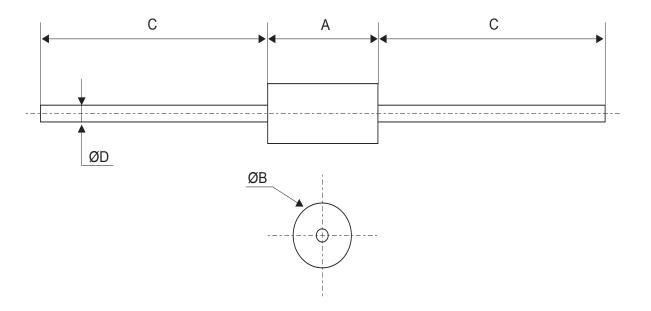


Table 3. DO-35 package mechanical data

	Dimensions				
Ref.	Millimeters		Inches ⁽¹⁾		
	Min.	Max.	Min.	Max.	
А	3.05	4.50	0.120	0.177	
В	1.53	2	0.060	0.079	
С	28	31	1.102	1.220	
D	0.46	0.55	0.018	0.022	

1. Inches given for reference only

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3 Ordering information

Figure 8. Ordering information scheme

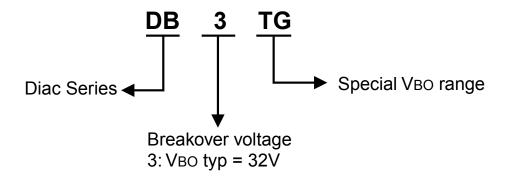


Table 4. Ordering information

Order code Marking		Package Weight Base qty		Base qty.	Delivery mode	
DB3TG	DB3TG (Blue Body Coat)	DO-35	0.15 g	5000	Tape and reel	

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Revision history

Table 5. Document revision history

Date	Version	Changes	
Oct-2001	2	Previous release.	
07-May-2019 3		Updated Section 1.1 Characteristics (curves).	

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