



DB3 /DB4 / DC34

TRIGGER DIODES

FEATURES

- V_{BO} : 32V / 34V / 40V VERSIONS
- LOW BREAKOVER CURRENT

DESCRIPTION

High reliability glass passivation insuring parameter stability and protection against junction contamination.



ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
P	Power dissipation on printed circuit (L = 10 mm)	Ta = 65 °C	150	mW
I _{TRM}	Repetitive peak on-state current	tp = 20 μs F = 100 Hz	2	A
Tstg Tj	Storage and operating junction temperature range		- 40 to + 125 - 40 to + 125	°C °C

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
R _{th (j-a)}	Junction to ambient	400	°C/W
R _{th (j-l)}	Junction-leads	150	°C/W

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ELECTRICAL CHARACTERISTICS (T_j = 25°C)

Symbol	Parameter	Test Conditions		Value			Unit
				DB3	DC34	DB4	
V _{BO}	Breakover voltage *	C = 22nF ** see diagram 1	MIN	28	30	35	V
			TYP	32	34	40	
			MAX	36	38	45	
[I+V _{BO} -I-V _{BO}]	Breakover voltage symmetry	C = 22nF ** see diagram 1	MAX	± 3			V
IΔV± I	Dynamic breakover voltage *	ΔI = [I _{BO} to I _F =10mA] see diagram 1	MIN	5			V
V _O	Output voltage *	see diagram 2	MIN	5			V
I _{BO}	Breakover current *	C = 22nF **	MAX	100	50	100	μA
t _r	Rise time *	see diagram 3	TYP	1.5			μs
I _B	Leakage current *	V _B = 0.5 V _{BO} max see diagram 1	MAX	10			μA

* Electrical characteristic applicable in both forward and reverse directions.

** Connected in parallel with the devices.

DIAGRAM 1 : Current-voltage characteristics

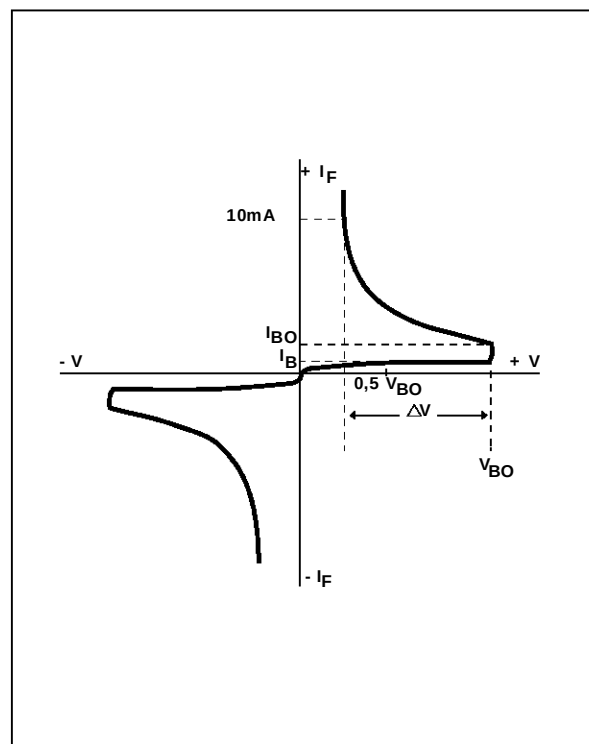
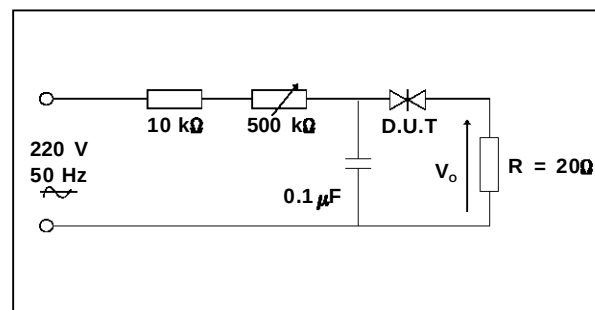


DIAGRAM 2 : Test circuit for output voltage



**DIAGRAM 3 : Test circuit see diagram 2.
Adjust R for I_p=0.5A**

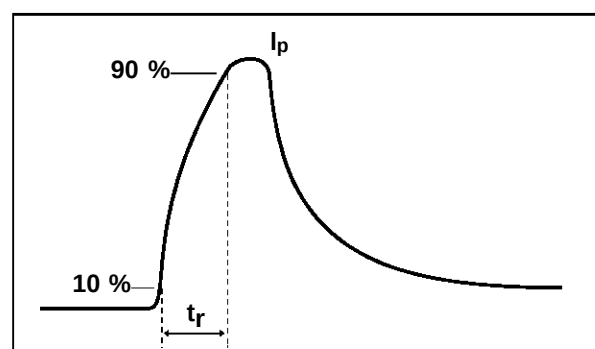
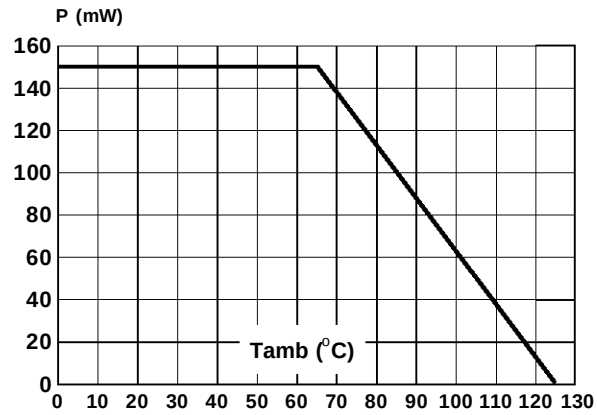
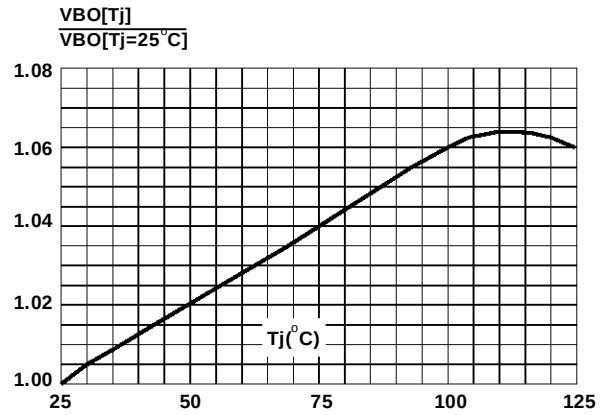
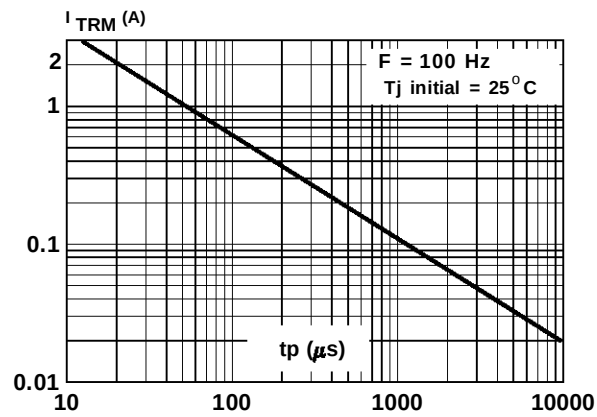
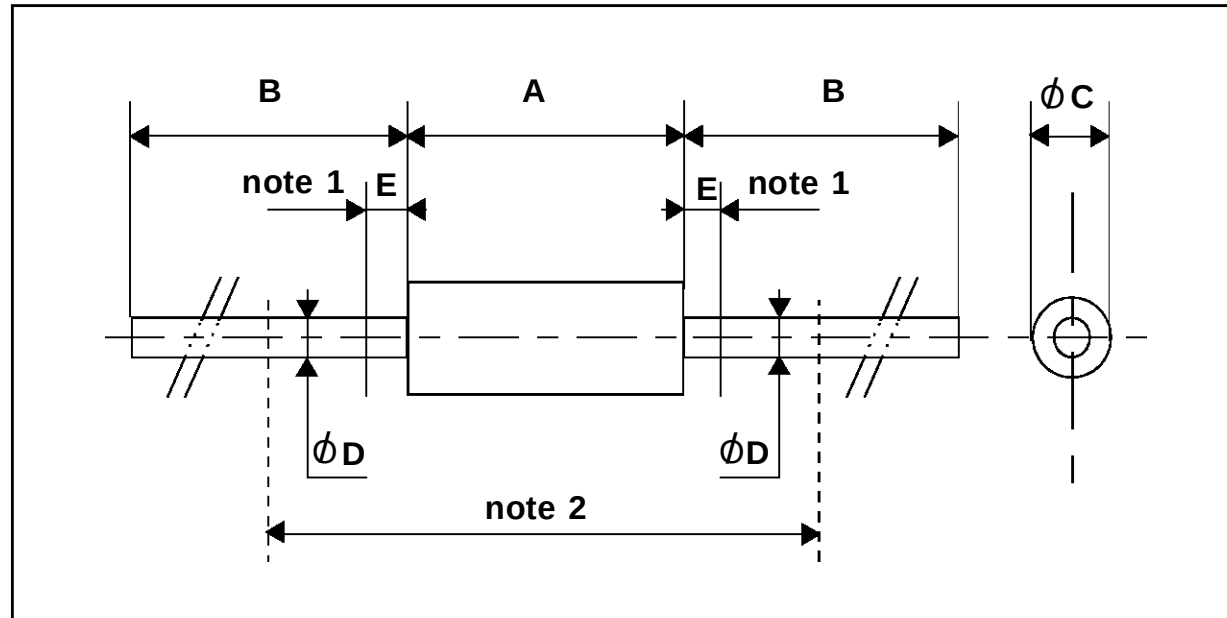


Fig.1 : Power dissipation versus ambient temperature (maximum values)**Fig.2 :** Relative variation of V_{BO} versus junction temperature (typical values)**Fig.3 :** Peak pulse current versus pulse duration (maximum values)

DB3 / DB4 / DC34**PACKAGE MECHANICAL DATA** (in millimeters)
DO 35 Glass

REF.	DIMENSIONS				NOTES
	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
A	3.050	4.500	0.120	0.117	1 - The lead diameter Ø D is not controlled over zone E 2 - The minimum axial length within which the device may be placed with its leads bent at right angles is 0.59"(15 mm)
B	12.7		0.500		
Ø C	1.530	2.000	0.060	0.079	
Ø D	0.458	0.558	0.018	0.022	
E		1.27		0.050	

Cooling method by convection and conduction
Marking : type number
Weight : 0.15 g

Polarity : N A
Stud torque : N A

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