

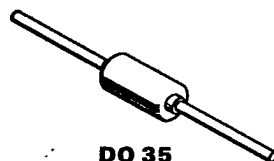
8834750 TAG SEMICONDUCTORS LTD

63C 00923 D T-25-05

TAG SEMICONDUCTORS LTD

D0201YR DIAC

The D0201 bidirectional trigger diode is a low cost PNP element suitable for triggering TRIAC's. These parts are fabricated using TAG's high performance glassivated process and are intended for high volume applications.

**D0 35****Absolute Maximum Ratings** $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Part Nr.	Symbol	Min.	Nom.	Max.	Unit	Test Conditions
Break-Over Voltage	D0201YR	V_{BO}	29	32	35	V	
Peak Current		I_P			2	A	10 μs pulse, 120 Hz repetition Figure 2
Operating Temperature		T_j	-40		125	$^\circ\text{C}$	
Storage Temperature		T_{stg}	-40		125	$^\circ\text{C}$	
Soldering Temperature		T_{sld}			250	$^\circ\text{C}$	1.6 mm from case, 10 s max.

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Break-Over Voltage Symmetry	ΔV_{BO}		3	V	
Break-Over Current	I_{BO}		50	μA	$C_T = 27 \text{ nF}$ see Figure 3
Peak Output Voltage	V_p	5		V	$C_T = 0.1 \mu\text{F}$ see Figure 3

Figure 1

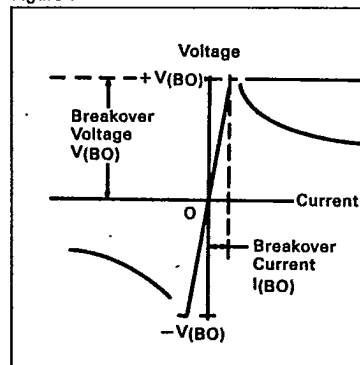


Figure 2

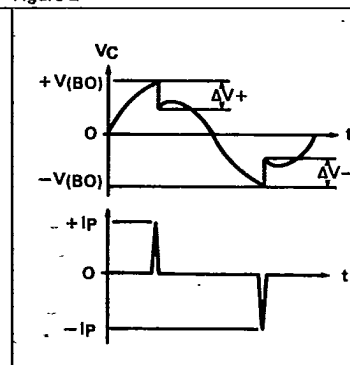
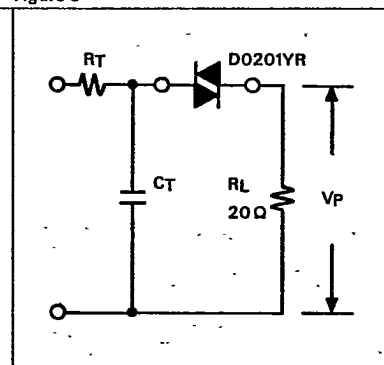


Figure 3

**D02**