

350 mW DO-35 Hermetically Sealed Glass BI-directional Trigger Diode



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

Symbol	Parameter	Value	Units
I_{TRM}	Repetitive peak on-state current $t_p = 20\mu\text{s}$, $F = 120\text{Hz}$	2	A
T_{stg} T_j	Storage temperature range Operating junction temperature	-40 ~ 125	$^\circ\text{C}$



These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- $V_{BO} = 32\text{V}$
- DO-35 Package (JEDEC)
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Leads Are Readily Solderable
- RoHS Compliant
- Solder Hot Dip Tin (Sn) Lead Finish

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

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
V_{BO}	Breakover Voltage	$C = 22\text{nF}$ (note 2)	28	36	Volts
$[V_{BO+}] - [V_{BO-}]$	Breakover Voltage Symmetry	$C = 22\text{nF}$ (note 2)		3	Volts
$[\Delta V]$	Dynamic Breakover Voltage	V_{BO} and V_F at 10mA	5		Volts
V_o	Output Voltage	See diagram 2 ($R = 20\ \Omega$)	5		Volts
I_{BO}	Breakover Current	$C = 22\text{nF}$ (note 2)		50	μA
T_R	Rise Time	See diagram 3		2	μs
I_B	Leakage Current	$V_R = 0.5V_{BO}$ max		10	μA
I_P	Peak Current	See diagram 2		0.3	A

Notes:

1. All parameters applicable to both forward and reverse directions.
2. Connected in parallel in the device

PRELIMINARY DATASHEET

DIAGRAM 1: VOLTAGE – CURRENT CHARACTERISTIC CURVE

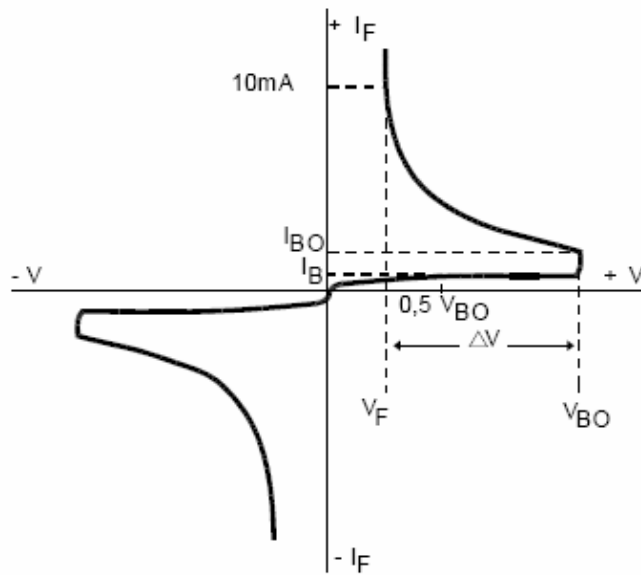


DIAGRAM 2: TEST CIRCUIT

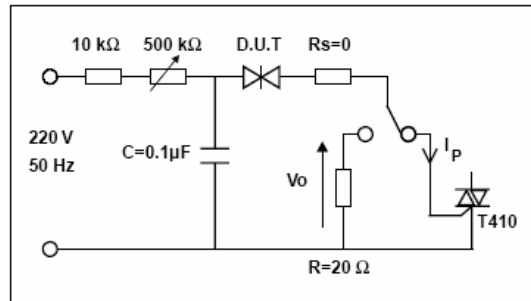
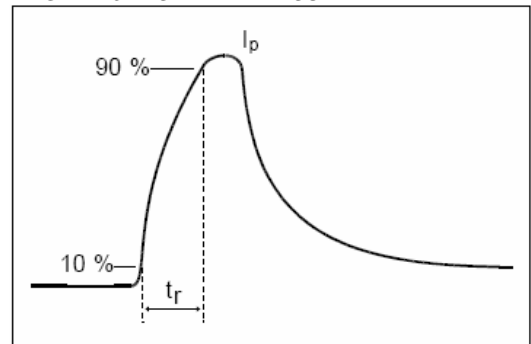
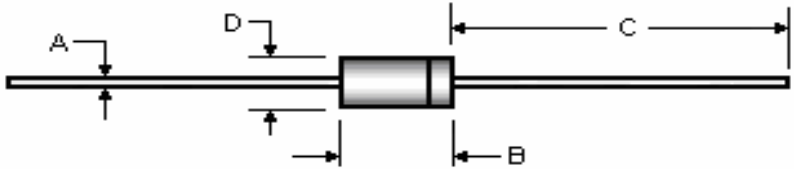


DIAGRAM 3: RISE TIME MEASUREMENT



Package Outline

Package	Case Outline				
DO-35					
	DO-35				
	DIM	Millimeters		Inches	
		Min	Max	Min	Max
	A	0.46	0.55	0.018	0.022
	B	3.05	5.08	0.120	0.200
C	25.40	38.10	1.000	1.500	
D	1.53	2.28	0.060	0.090	


Notes:

- All dimensions are within JEDEC standard.

This datasheet presents technical data of Tak Cheong's Trigger Diode. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website <http://www.takcheong.com>.

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