

# FrelTec

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FrelTec

Trigger  
DO35

# DO-35

## SPECIFICATION

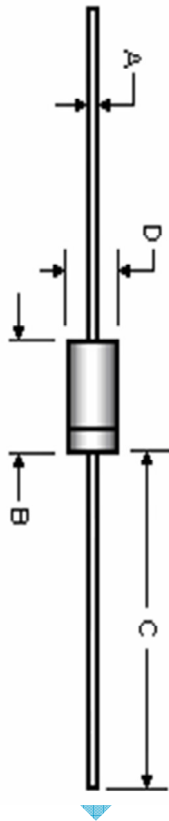
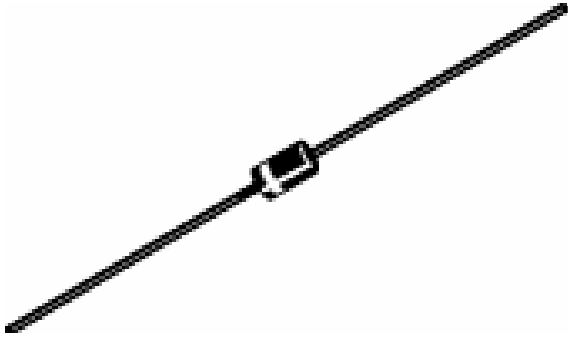
641	DB_ xxxxxxxx	DO35	B05
Type	Type	Package	Packing
641: trigger	DB_	DO35	B05: tape in box (paper tape) for 5k pc

All products according to RoHS (2015/863/EU)



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**PACKAGE OUTLINE**



DIM.	Unit (mm)	
	Min	Max
A	0,46	0,55
B	3,05	5,08
C	25,4	38,10
D	1,53	2,28

# DO-35

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

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation @ $T_a = 50^\circ\text{C}$	150	mW
$I_{TRM}$	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.

**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	$\mu\text{A}$
$T_R$	Rise Time	See diagram 3		2	$\mu\text{s}$
$I_B$	Leakage Current	$V_R = 0,5V_{BO}$ max		10	$\mu\text{A}$
$I_P$	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.

# DO-35

## Rating and Characteristic Curves

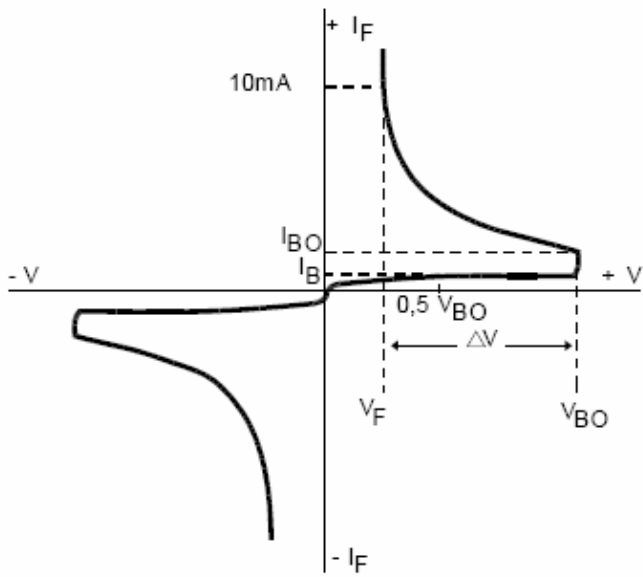


DIAGRAM 2: TEST CIRCUIT

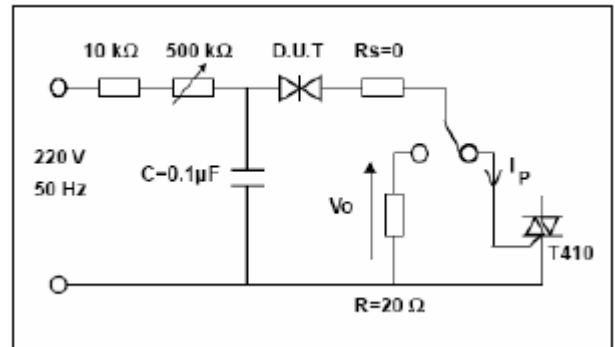
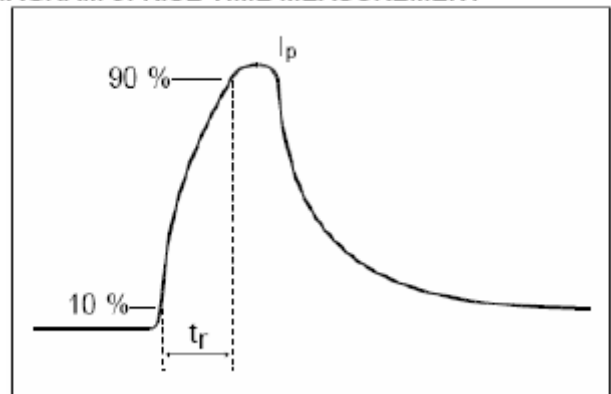
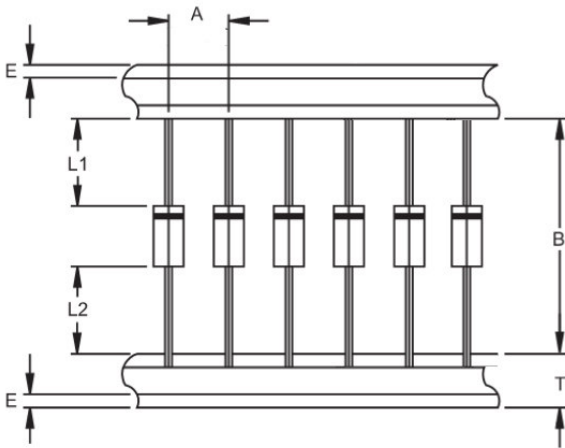


DIAGRAM 3: RISE TIME MEASUREMENT



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SPECIFICATION

*Tape in box (paper tape)*



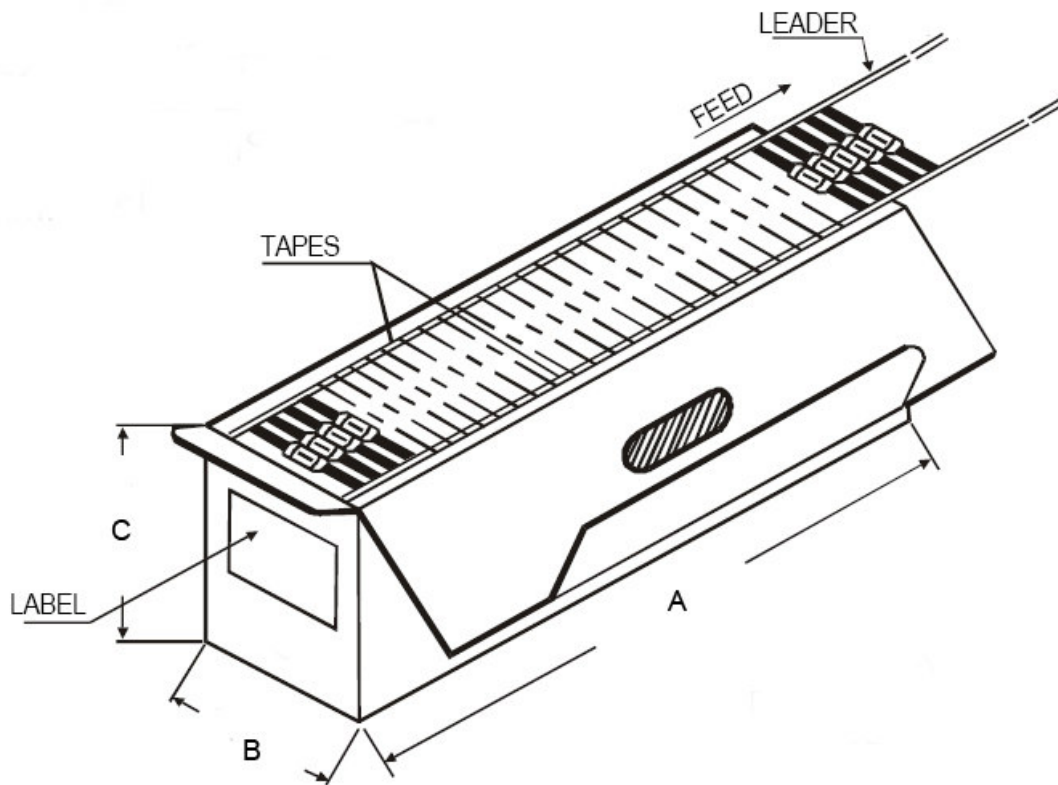
Taping Dimensions	A +/- 0,5mm	B +/- 1,5mm	T	E	L1-L2
DO-35	0,5mm	52,4mm	2,75~6,4	0,8max	±1,2

**Zener Diode**

**DO-35**

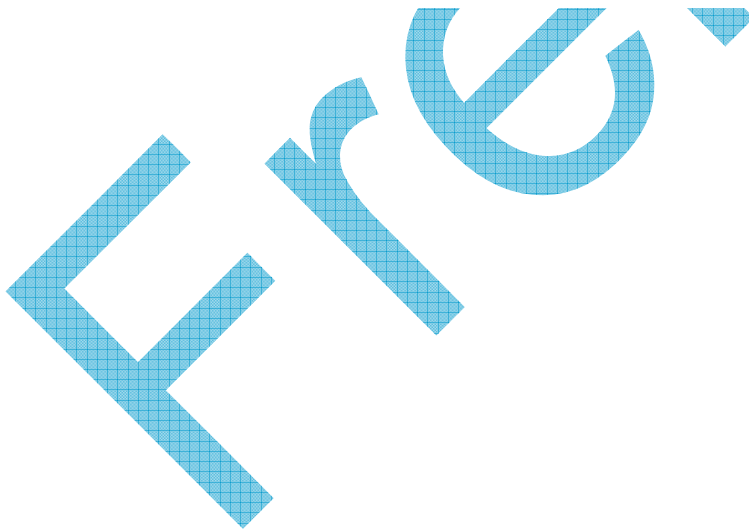
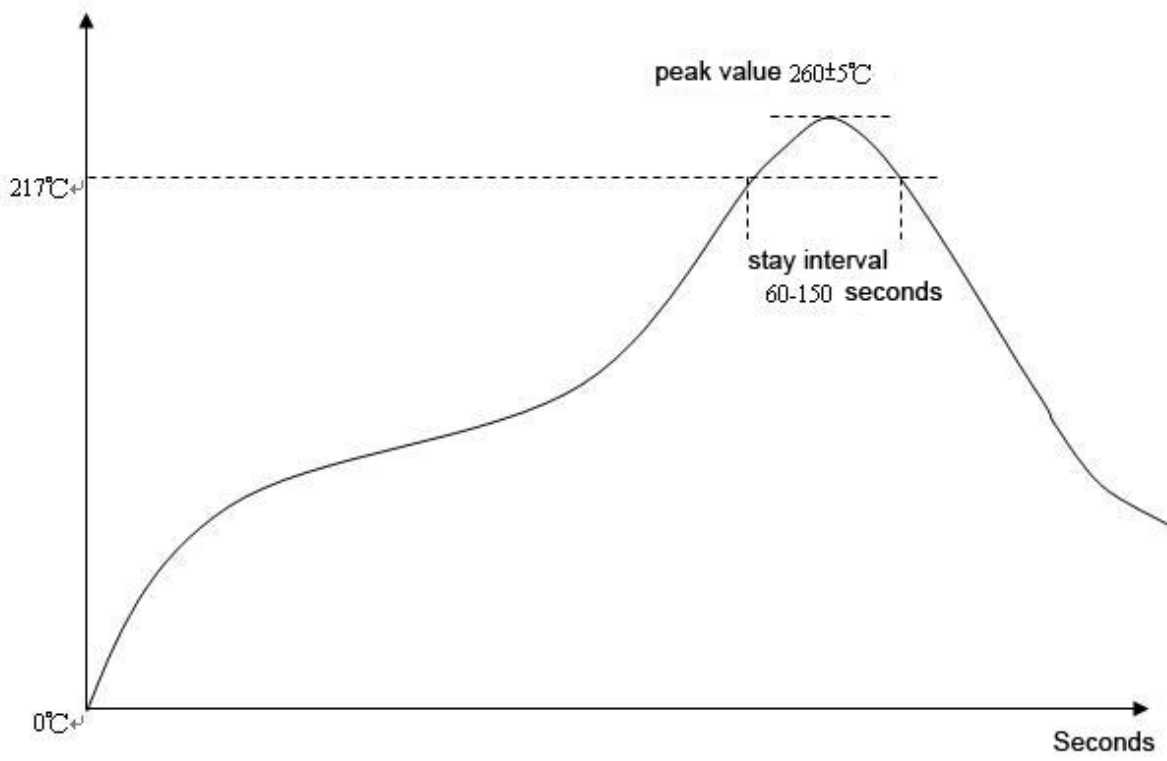
This axial-lead component's packaging requirements use in automatic testing and assembly equipment. And this standard practices for lead-tape packaging of axial-lead components meets the requirements of EIA Standard RS-296-D "Lead-taping of Components on Axial Lead Configuration for Automatic Insertion".

**Tape & Ammo Outline**



Packaging	Available Product Outlines	Dimension "A"	Dimension "B"	Dimension "C"	Quantity Box
52mm Horizontal Ammo Pack	DO-35	250mm	80mm	80mm	5K

DO-35  
Lead Free Reflow Soldering Profile



**Stock period**

The performance of these products, including the solderability, is guaranteed for 12 month, provided that they remain packed as they were when delivered and stored at a temperature of 25°C ± 3°C and a relative humidity less than 80%RH



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3. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. Nevertheless, we explicitly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, FrelTec® is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a FrelTec® product with the properties described in the product specification is suitable for use in a particular customer application.
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