

## 350 mW DO-35 Hermetically Sealed Glass AFC / Trigger Diodes



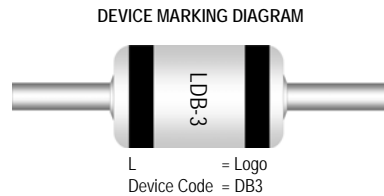
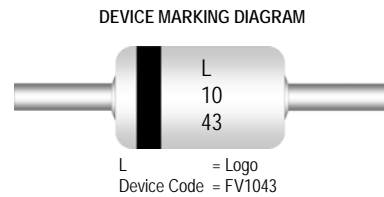
### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	350	mW
$T_{STG}$	Storage Temperature Range	-65 to +200	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+175	$^\circ\text{C}$

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

### Specification Features:

- 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
- Cathode indicated by polarity band



### AFC-FV-1043 Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

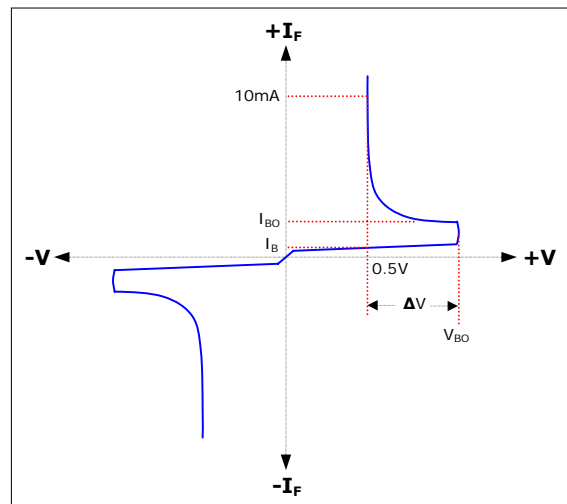
Parameter	Test Condition	Limits			Unit
		Min	Typical	Max	
$B_V$	$I_R = 5\mu\text{A}$	5			Volts
Normal Capacitance	$V_R = 5\text{V}$	5			pF
C 0.1	$V_R = 0.1\text{V}$		1.8		
C 4.0	$V_R = 4.0\text{V}$				
Q	$f = 100\text{MHz}$	50			

**Trigger - DB3 Electrical Characteristics**
 $T_A = 25^\circ\text{C}$  unless otherwise noted

Parameter	DB3			Unit
	Min	Typical	Max	
$V_{BO}$	28	32	36	Volts
$[V_{BO}-V_{BO}]$			$\pm 3$	Volts
$[\Delta V]$	5			Volts
$V_O$	5			Volts
$I_{BO}$			100	$\mu\text{A}$
$T_R$		1.5		$\mu\text{S}$
$I_B$			10	$\mu\text{A}$

**Electrical Symbol Definition**

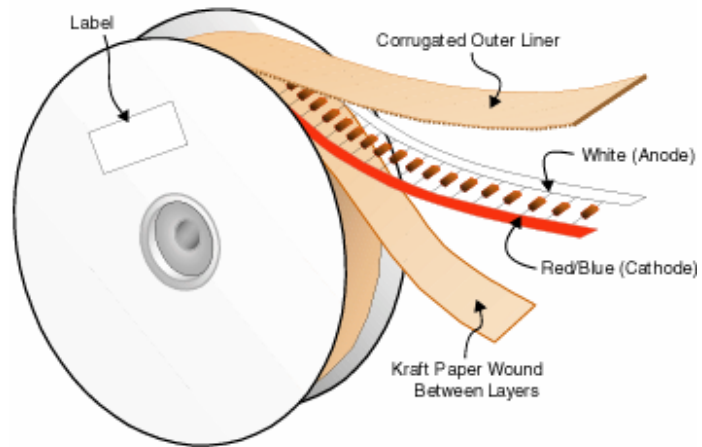
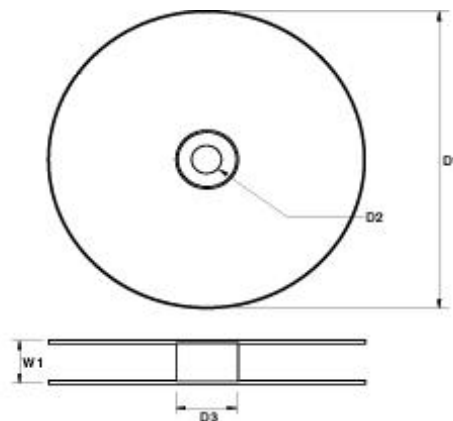
Symbol	Parameter
$B_V$	Breakdown Voltage @ $I_R$
$V_{BO}$	Breakover Voltage @ $I_{BO}$
$[V_{BO}-V_{BO}]$	$V_{BO}$ Symmetry
$[\Delta V]$	Dynamic Breakover Voltage
$V_O$	Output Voltage
$I_{BO}$	Breakover Current
$T_R$	Rise Time
$I_B$	Leakage Current
$I_F$	Forward Current

**Typical Characteristics**

**Ordering Information**

Device	Package	Quantity
FV-1043 / DB3	Bulk	10,000
FV-1043 / DB3.TB	Tape and Ammo	5,000
FV-1043 / DB3.TR	Tape and Reel	10,000
FV-1043 / DB3	Others (...contact sales representatives)	

**Axial-Lead Tape Packaging Standards**

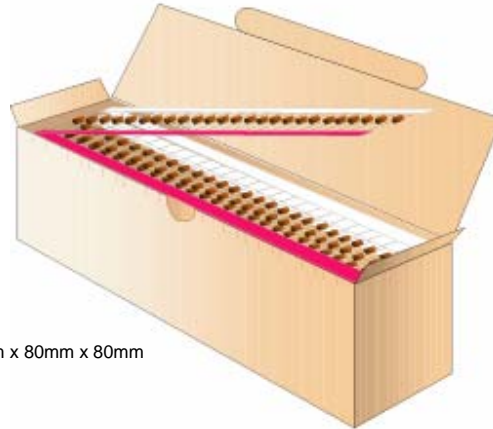
This axial-lead component's packaging requirements use in automatic testing and assembly equipment. And this standard practices for lead-tape packaging of axial-lead components meets the requirements of EIA Standard RS-296-D "Lead-taping of Components on Axial Lead Configuration for Automatic Insertion".

**Tape & Reel Packaging Information**
**Tape & Reel Outline**

**Reel Dimensions**


DIM	Millimeters
D1	356
D2	30
D3	84
W1	77.5

**Quantity Per Reel**

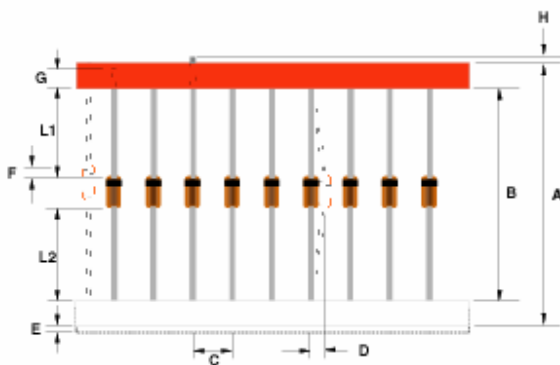
PKG Type	Quantity Per Reel
DO-35	10,000

**Tape & Ammo Packaging Information**
**Tape & Ammo Outline**


250mm x 80mm x 80mm

**Quantity Per Ammo Box**

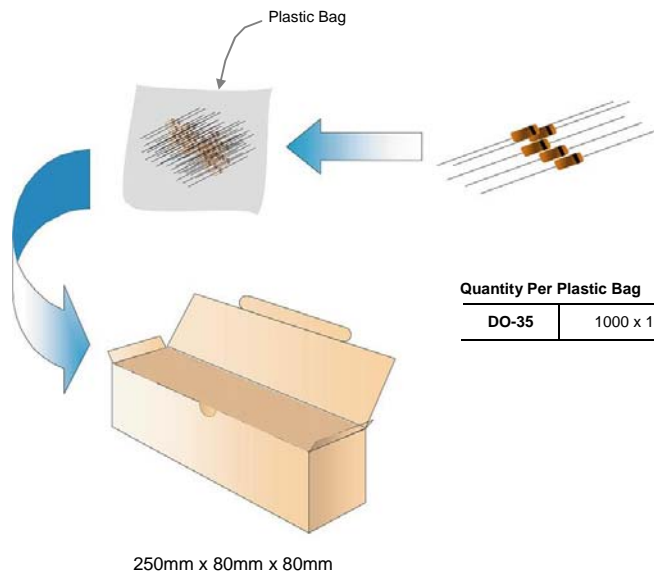
PKG Type	Quantity Per Box
DO-35	5,000

**Taping Dimensions**


Description	Millimeters	
	Standard Width	52
Tape Spacing (B)	52 ± 0.69	26 +0.5 / -0
Component Pitch (C)	5.08 ± 0.4	5.08 ± 0.4
Untaped Lead (L1 – L2)	± 0.69	± 0.69
Glass Offset (F)	± 0.69	± 0.69
Bent (D)	1.2 Max	1.2 Max
Tape Width (G)	6.138 ± 0.576	6.138 ± 0.576
Tape Mismatch (E)	0.55 Max	0.55 Max
Taped Lead (G)	3.2 Min	3.2 Min
Lead Beyond Tape (H)	0	0

**Bulk Packaging Information**

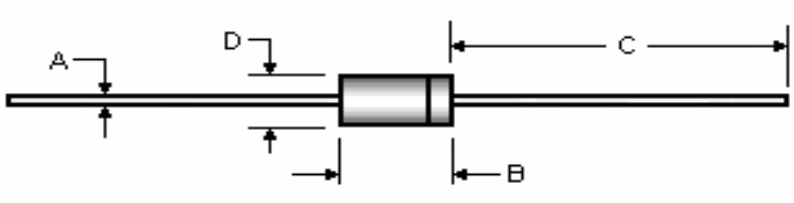
**Bulk Outline**



**Quantity Per Box**

PKG Type	Quantity Per Box
DO-35	10,000

**Package Outline**

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

**Notes:**

1. All dimensions are within JEDEC standard.
2. DO35 polarity denoted by cathode band.