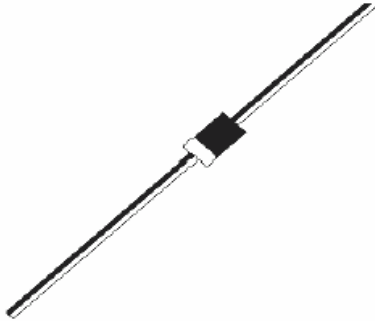


FAST RECOVERY RECTIFIERS

FR3/BY396 SERIES



**DO-201AD (DO-27)
Axial Lead Plastic Package**

Polarity: Colour band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $T_a=25^{\circ}\text{C}$ Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

DESCRIPTION	SYMBOL	FR301	BY396	BY397	BY398	FR305	BY399	FR307	UNIT
			FR302	FR303	FR304		FR306		
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_a=75^{\circ}\text{C}$	$I_{(AV)}$	3.0							A
Peak Forward Surge Current, 8.3ms single half sine wave super imposed on rated load (JEDEC method)	I_{FSM}	150							A
Maximum Forward Voltage at 3.0A	V_F	1.3							V
Maximum DC Reverse Current at $T_j=25^{\circ}\text{C}$ at Rated DC Blocking Voltage at $T_j=100^{\circ}\text{C}$	I_R	5.0 100							μA μA
Maximum Reverse Recovery Time	$*T_{RR}$	150				250	500		ns
Typical Junction Capacitance	$**C_J$	65				40			pF
Typical Thermal Resistance	$***R_{th(j-a)}$	15							$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	- 55 to +125							$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150							$^{\circ}\text{C}$

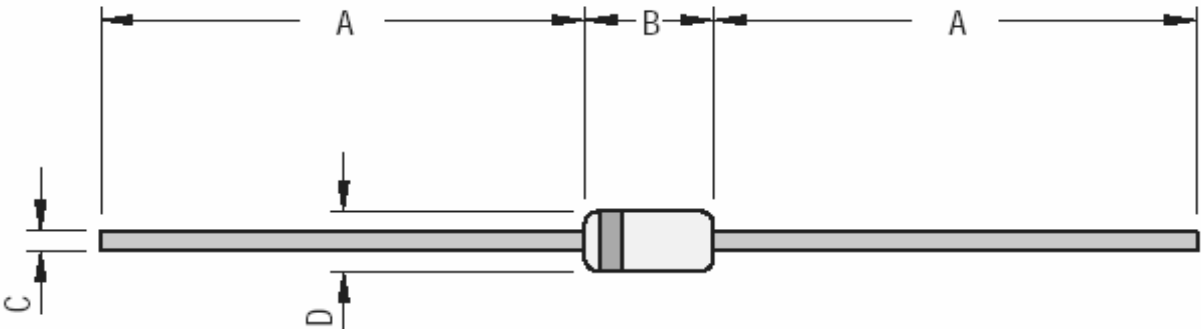
*Measured with $I_F=5\text{A}$, $I_R=1\text{A}$, $I_{RR}=0.25\text{A}$

**Measured at 1MHz and applied reverse voltage of 4.0 V DC

***Thermal Resistance Junction to Ambient

DO-201AD (DO-27)
Axial Leaded Plastic
Package

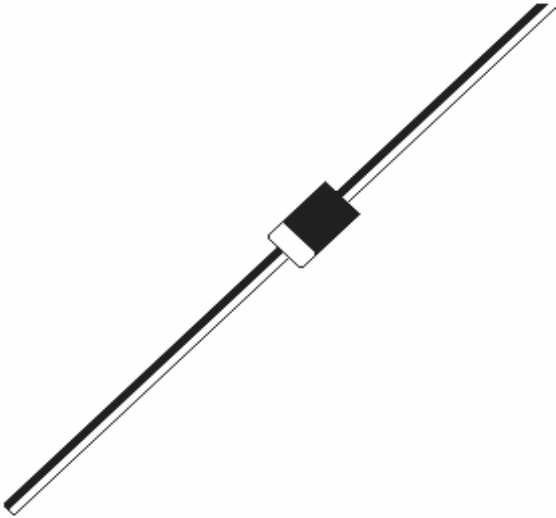
DO-201AD Axial Plastic Package



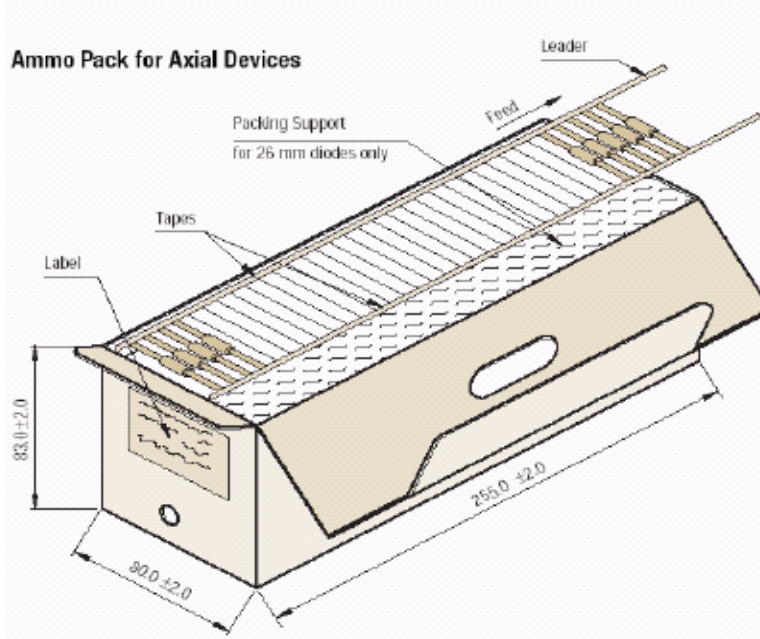
Cathode is marked by a Band

DIM	Min	Max
A	25.40	
B	7.20	9.50
C	1.20	1.30
D	5.00	5.60

All Dimensions are in mm



AMMO PACKING FOR DO-201AD



All Dimensions are in mm

Packaging Information

Package/ Case Type	Packaging Type	Std. Packing Qty	Qty	Inner Carton		Outer Carton		
				Size L x W x H (cm)	Gross Weight (kg)	Qty	Size L x W x H (cm)	Gross Weight (kg)
DO-201AD	T&A	1,200	1.2K	29 x 8 x 15	1.68	10.8K	46 x 36 x 26	15.3

T & A: Tape and Ammo Pack

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

FR3/BY396 SERIES Rev020507E

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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