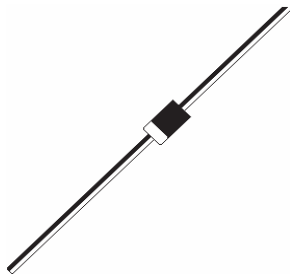


SUPERFAST RECOVERY RECTIFIER

MUR420

DO-201AD
Axial Plastic Package



ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at $T_A = 25^\circ\text{C}$ unless specified otherwise, single phase, half wave, 60Hz, resistive or inductive load.
for capacitive load, derate current by 20%.)

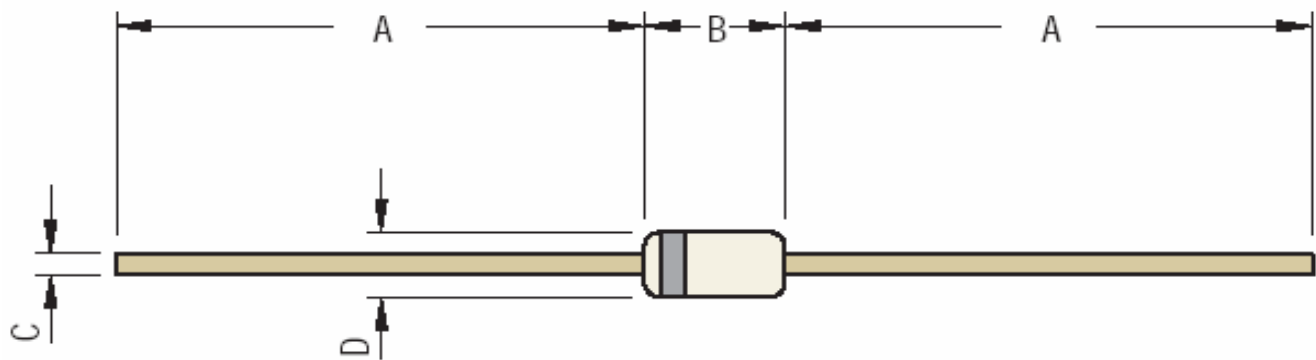
| Description | Symbols | Value | Units |
|--|-----------------|-------------|--------------------|
| Maximum Peak Repetitive Reverse Voltage | V_{RRM} | 200 | Volts |
| Maximum RMS Voltage | V_{RMS} | 140 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 200 | Volts |
| Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$ | $I_{(AV)}$ | 5.0 | Amp |
| Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 150 | Amp |
| Maximum Forward Voltage at 5.0A DC and 25°C | V_F | 0.95 | Volts |
| Maximum Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$ | I_R | 5.0 500 | μAmp |
| Typical Junction Capacitance (Note 1) | C_j | 45 | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 25 | $^\circ\text{C/W}$ |
| Maximum Reverse Recovery Time (Note 3) | T_{RR} | 35 | nS |
| Operating Junction Temperature Range | T_j | -55 to +150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 V_{DC} .
- 2- Thermal resistance from Junction to Ambient and from junction to lead at 0.375" (9.5mm) lead length PCB Mounted
- 3-Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{RR} = 0.25\text{A}$.

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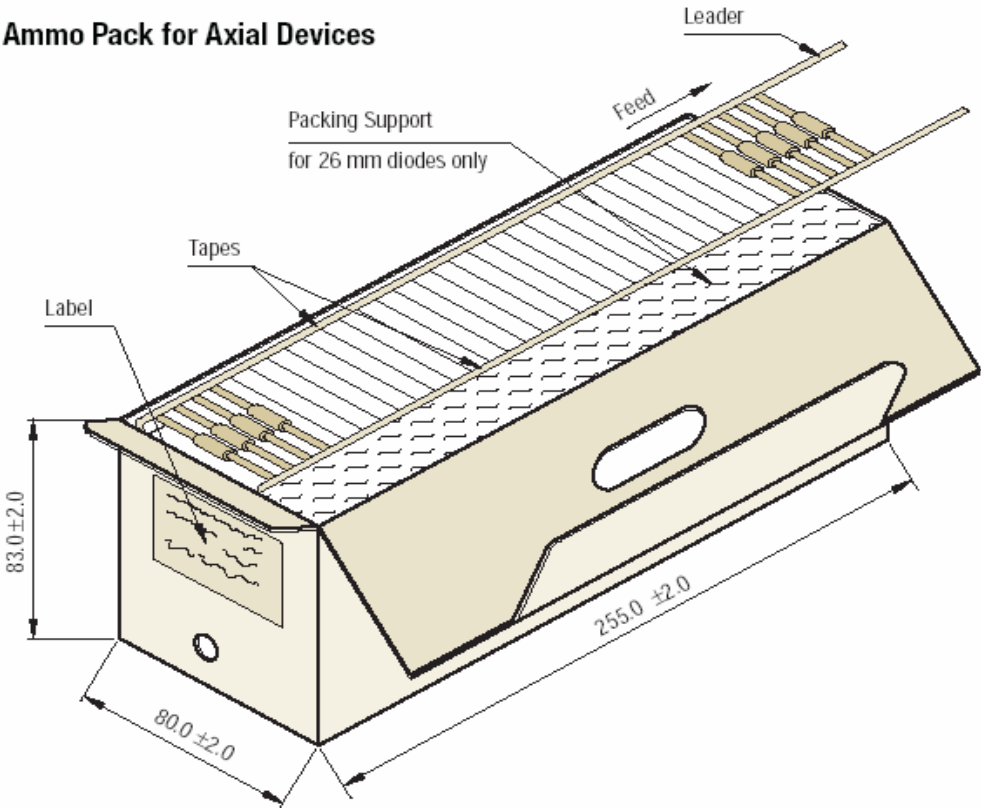
Cathode is marked by a Band

| DIM | Min | Max |
|-----|-------|------|
| A | 25.40 | |
| B | 8.50 | 9.50 |
| C | 1.20 | 1.30 |
| D | 5.00 | 5.60 |

All Dimensions are in mm



AMMO PACKING FOR DO-201AD



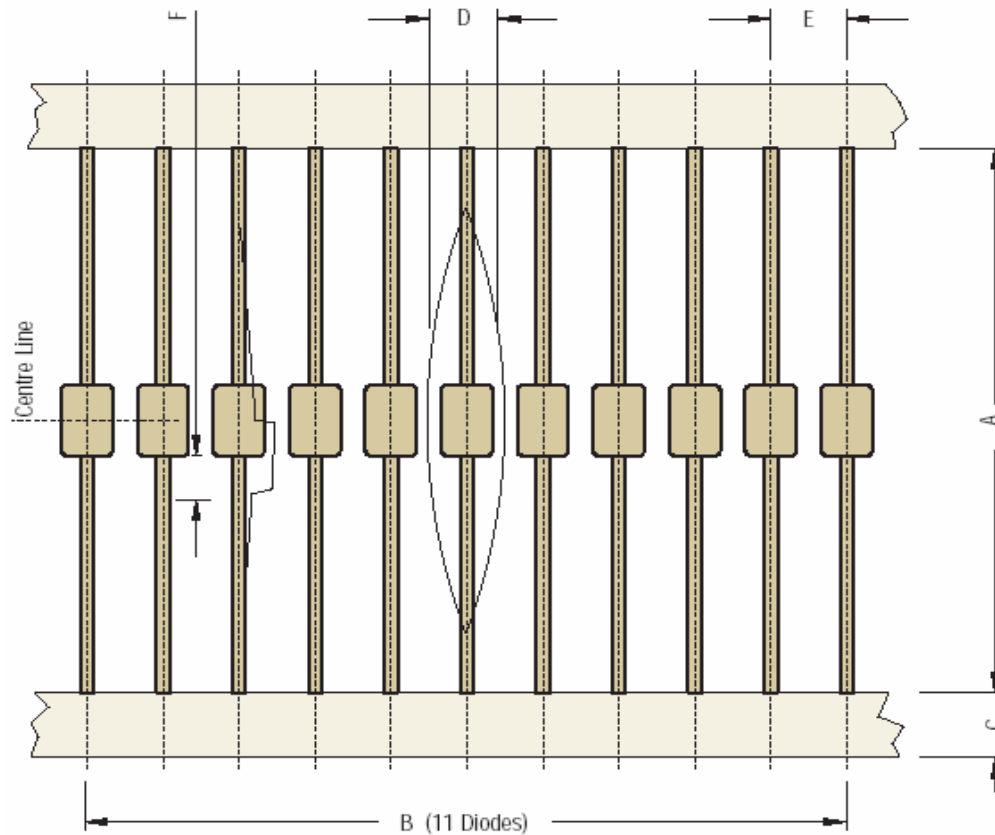
All Dimensions are in mm

Packaging Information

| Package/ | Packaging Type | Std. Packing | Inner Carton | | | Outer Carton | | |
|-----------|----------------|--------------|--------------|-------------------|-----------------|--------------|-------------------|--------------|
| Case Type | | Qty | Qty | Size L x W x H | Gross Weight | Qty | Size L x W x H | Gross Weight |
| | | | | (cm) | (Kg) | | (cm) | (Kg) |
| DO-201AD | T&A | 1,200 | 1.2K | 29 x 8 x 15 | 1.68 | 10.8K | 46 x 36 x 25 | 15.3 |

T & A: Tape and Ammo Pack

AXIAL TAPE FOR DO-201AD



| DO-201AD 52 mm Tape | | |
|---------------------|------|-------|
| DIM | Min | Max |
| A | 50.0 | 54.0 |
| B | 95.0 | 105.0 |
| C | 5.60 | 6.50 |
| D | | 1.5R |
| E | 9.50 | 10.50 |
| F | | 1.25 |

All Dimensions are in mm

TAPE SPECIFICATIONS

1. 300 mm (Min) leader tape on every roll.
2. No. of empty places allowed 0.25% without consecutive empty places.
3. Ends of leads shall normally not protrude beyond the tapes.
4. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

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).

Customer Notes**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). CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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