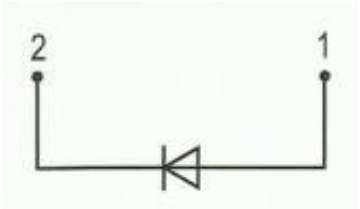
# MDO1201-22N1

## Rectifier Diode Module




### FEATURES

- Isolated Base Plate
- Low Forward Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- These devices are ideally suited for power converters, motors drives and other applications where switching losses are significant portion of the total losses.

### ABSOLUTE MAXIMUM RATINGS

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|---|---|---|---|---|
| $V_R$ | Repetitive Peak Reverse Voltage | | 2200 | V |
| $I_{F(AV)}$ | Average Forward Current | $T_C$=100℃ | 1280 | A |
| $I_{FSM}$ | Surge Forward Current | Tp=10ms，$T_J$=160℃ | 36 | kA |
| $V_{ISO}$ | Maximum Power Dissipation | | 3000 | V |
| $T_J$ | Junction Temperature | | -40~160 | ℃ |
| $T_{stg}$ | Storage Temperature Range | | -55~160 | ℃ |

### THERMAL CHARACTERISTICS

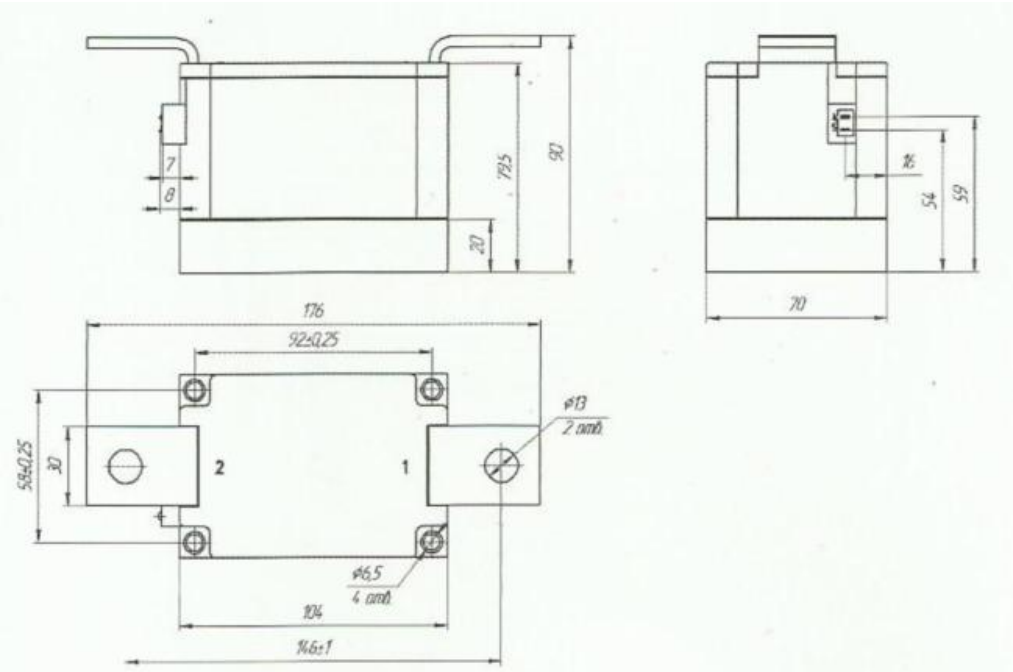
| SYMBOL | PARAMETER | | MAX | UNIT |
|---|---|---|---|---|
| $R_{th\ j\text{-}c}$ | Thermal Resistance, Junction to Case | Per diode | 0.042 | ℃/W |

## ELECTRICAL CHARACTERISTICS

| SYMBOL | PARAMETER | CONDITIONS | MAX | UNIT |
|---|---|---|---|---|
| $V_{FM}$ | Forward Voltage drop | $I_F$= 3140A, $T_J$= 25℃ | 1.3 | V |
| $I_{RRM}$ | Instantaneous Reverse Current | $V_R$= $V_{RRM}$, $T_J$= 25℃ | 5 | mA |
| | | $V_R$= $V_{RRM}$, $T_J$= 125℃ | 70 | mA |

## PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394“)

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