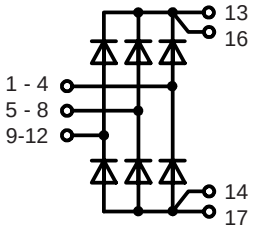
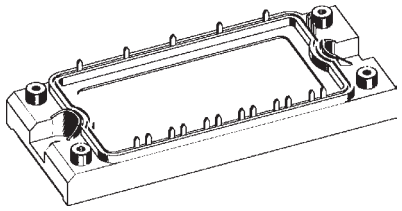
# Three Phase Rectifier Bridge

$I_{dAVM}$ = 118 A
$V_{RRM}$ = 1600 V

Preliminary data

| $V_{RRM}$ V | Type |
|---|---|
| 1600 | VUO 121-16 NO1 |



| Symbol | Test Conditions | Maximum Ratings | |
|---|---|---|---|
| $V_{RRM}$ | | 1600 | V |
| $I_{dAVM}$ | $T_C$ = 100°C, sinusoidal 120° | 118 | A |
| $I_{FSM}$ | $T_{VJ}$ = 45°C, t = 10 ms, $V_R$ = 0 V | 650 | A |
| | $T_{VJ}$ = 150°C, t = 10 ms, $V_R$ = 0 V | 580 | A |
| $I^2t$ | $T_{VJ}$ = 45°C, t = 10 ms, $V_R$ = 0 V | 2110 | A |
| | $T_{VJ}$ = 150°C, t = 10 ms, $V_R$ = 0V | 1630 | A |
| $P_{tot}$ | $T_C$ = 25°C per diode | 120 | W |
| $T_{VJ}$ | | -40...+150 | °C |
| $T_{VJM}$ | | 150 | °C |
| $T_{stg}$ | | -40...+125 | °C |
| $V_{ISOL}$ | 50/60 Hz, t = 1 min | 2500 | V~ |
| | $I_{ISOL}$ ≤ 1 mA, t = 1 s | 3000 | V~ |
| $M_d$ | Mounting torque (M5) | 4 | Nm |
| | (10-32 UNF) | 35.4 | lb.in. |
| $d_S$ | Creep distance on surface | 6 | mm |
| $d_A$ | Strike distance in air | 6 | mm |
| Weight | typ. | 180 | g |

| Symbol | Test Conditions | Characteristic Values min. | typ. | max. | |
|---|---|---|---|---|---|
| $I_R$ | $V_R = V_{RRM}$, $T_{VJ}$ = 25°C | | | 0.1 | mA |
| | $V_R = V_{RRM}$, $T_{VJ}$ = 150°C | | | 1.5 | mA |
| $V_F$ | $I_F$ = 100 A, $T_{VJ}$ = 25°C | | | 1.55 | V |
| $V_{F0}$ | For power-loss calculations only | | | 0.8 | V |
| $r_T$ | $T_{VJ}$ = 150°C | | | 5 | mΩ |
| $R_{thJC}$ | per diode; sinusoidal 120° | | | 0.8 | K/W |
| $R_{thCH}$ | | | 0.1 | | K/W |
| $R_{Pin-Chip}$ | | | 2.5 | | mΩ |

## Features

- Industry standard package with insulated copper plate and soldering pins for PCB mounting
- Isolation voltage 3000 V~
- Convenient package outline

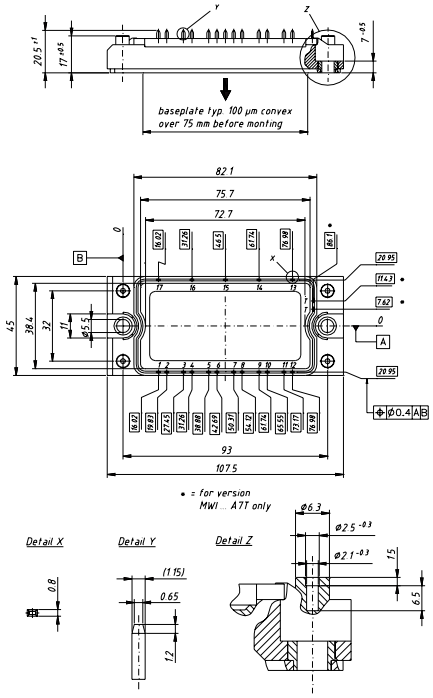
## Applications

- Input Rectifier for Drive Inverters

## Advantages

- Easy to mount with two screws
- Suitable for wave soldering
- High temperature and power cycling capability

## Dimensions in mm (1 mm = 0.0394")




IXYS reserves the right to change limits, test conditions and dimensions

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