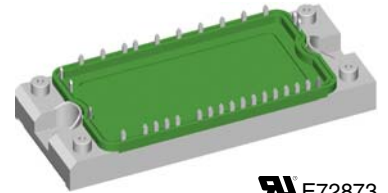
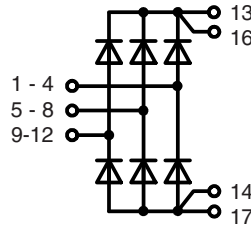


# Three Phase Rectifier Bridge

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

Preliminary data

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



E72873

See outline drawing for pin arrangement

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

## Features

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

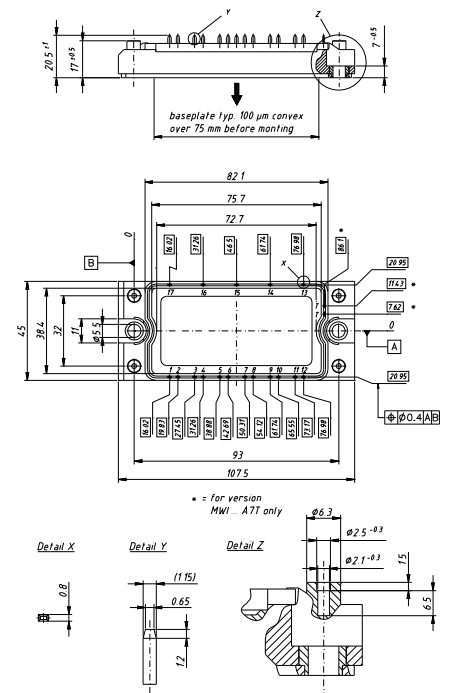
## Applications

- 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")



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