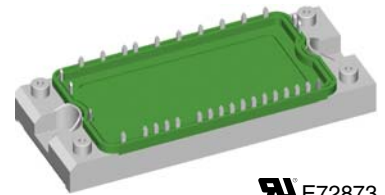
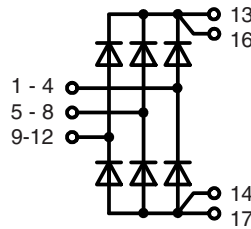


Three Phase Rectifier Bridge

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}	$T_{VJ} = 45^\circ\text{C}$, $t = 10$ ms, $V_R = 0$ V	650	A ² s
	$T_{VJ} = 150^\circ\text{C}$, $t = 10$ ms, $V_R = 0$ V	580	A ² s
I^2t	$T_{VJ} = 45^\circ\text{C}$, $t = 10$ ms, $V_R = 0$ V	2110	A ² s
	$T_{VJ} = 150^\circ\text{C}$, $t = 10$ ms, $V_R = 0$ V	1630	A ² 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, $t = 1$ min $I_{ISOL} \leq 1$ mA, $t = 1$ s	2500 3000	V~ V~
M_d	Mounting torque (M5) (10-32 UNF)	4 35.4	Nm 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

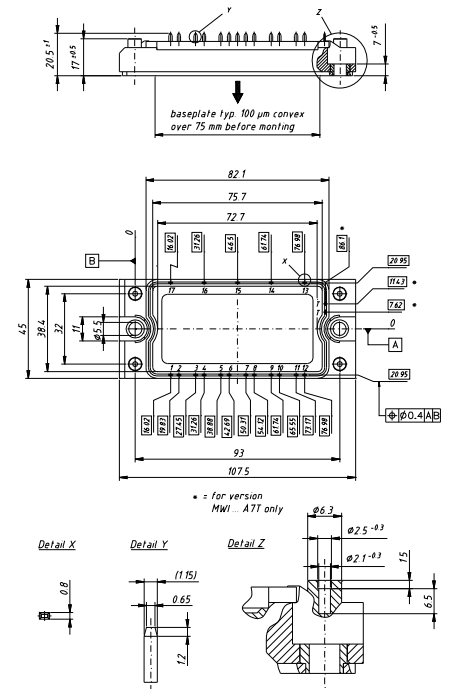
Applications

- 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°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

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