

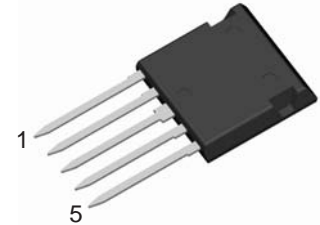
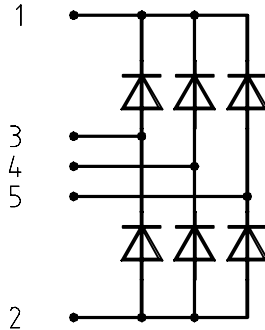
Three Phase Rectifier Bridge

in ISOPLUS i4-PAC™

FUO 22-12N

$V_{RRM} = 1200\text{ V}$
 $I_{D(AV)M} = 27\text{ A}$
 $I_{FSM} = 100\text{ A}$

Preliminary Data



Rectifier Bridge

Symbol	Conditions	Maximum Ratings	
V_{RRM}		1200	V
I_{FAV}	$T_C = 90^\circ\text{C}$; sine 180° (per diode)	10	A
$I_{D(AV)M}$	$T_C = 90^\circ\text{C}$	27	A
I_{FSM}	$T_{VJ} = 25^\circ\text{C}$; $t = 10\text{ ms}$; sine 50 Hz	100	A
P_{tot}	$T_C = 25^\circ\text{C}$ (per diode)	30	W

Features

- rectifier diodes for line frequency
- ISOPLUS i4-PAC™ package
 - isolated back surface
 - UL registered E 72873
 - low coupling capacity between pins and heatsink
 - enlarged creepage towards heatsink
 - application friendly pinout
 - high reliability
 - industry standard outline

Symbol	Conditions	Characteristic Values ($T_{VJ} = 25^\circ\text{C}$, unless otherwise specified)		
		min.	typ.	max.
V_F	$I_F = 15\text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $T_{VJ} = 125^\circ\text{C}$	1.2	1.3	V
		1.2		V
I_R	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$ $T_{VJ} = 125^\circ\text{C}$	0.2	5	μA mA
R_{thJC} R_{thJH}	(per diode)	5	4	K/W K/W

Applications

- three phase mains rectifiers

Component

Symbol	Conditions	Maximum Ratings	
T_{VJ}		-55...+150	°C
T_{stg}		-55...+125	°C
V_{ISOL}	$I_{ISOL} \leq 1 \text{ mA}; 50/60 \text{ Hz}$	2500	V~
F_c	mounting force with clip	20...120	N

Symbol	Conditions	Characteristic Values		
		min.	typ.	max.
C_p	coupling capacity between shorted pins and mounting tab in the case		40	pF
d_s, d_A	pin - pin	1.7		mm
d_s, d_A	pin - backside metal	5.5		mm
Weight			9	g

Dimensions in mm (1 mm = 0.0394")
