

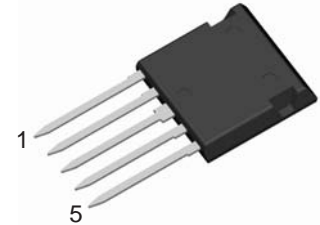
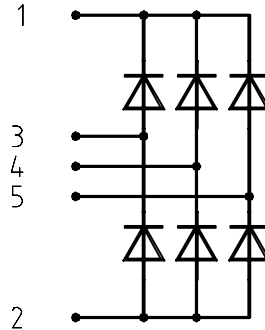
# Three Phase Rectifier Bridge

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 $180^\circ$ (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 $50\text{ Hz}$	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	$\mu\text{A}$ 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
<b>Weight</b>			9	g

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