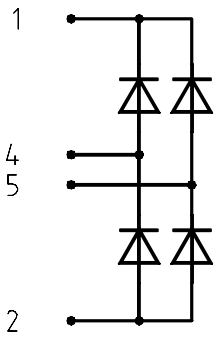
IXYS

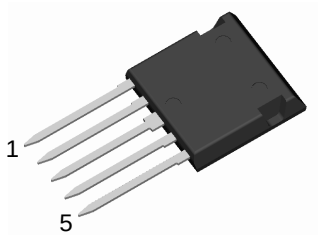
Single Phase Rectifier Bridge

in ISOPLUS i4-PAC™

FBO16-08N

V_{RRM} = 800 V
$I_{D(AV)M}$ = 22 A
I_{FSM} = 100 A





Rectifier Bridge

Symbol	Conditions	Maximum Ratings	
V_{RRM}		800	V
I_{FAV}	T_C = 90°C; sine 180° (per diode)	10	A
$I_{D(AV)M}$	T_C = 90°C	22	A
I_{FSM}	T_{VJ} = 25°C; t = 10 ms; sine 50 Hz	100	A
P_{tot}	T_C = 25°C (per diode)	30	W

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

Features

- rectifier diodes for line frequency
- ISOPLUS i4-PAC™ package
  - isolated back surface
  - enlarged creepage towards heatsink
  - application friendly pinout
  - high reliability
  - industry standard outline

Applications

- single phase mains rectifiers
- power factor correction in conjunction with boost chopper (FID.../FMD... type)

Data according to IEC 60747 refer to a single diode unless otherwise stated

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

030

Component

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

Symbol	Conditions	Characteristic Values		
		min.	typ.	max.
d_S,d_A	pin - pin	1.7		mm
d_S,d_A	pin - backside metal	5.5		mm
R_{thCH}	with heatsink compound		0.15	K/W
Weight			9	g

Dimensions in mm (1 mm = 0.0394")