

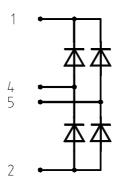
Single Phase Rectifier Bridge

in ISOPLUS i4-PAC™

Preliminary Data



 $V_{RRM} = 1200 V$ $I_{D(AV)M} = 22 A$ $I_{FSM} = 100 A$





Rectifier Bridge				
Symbol	Conditions		Maximum Ratings	
V _{RRM}			1200	V
I _{FAV} I _{D(AV)M} I _{FSM}	$T_{c} = 90^{\circ}\text{C}$; sine 18 $T_{c} = 90^{\circ}\text{C}$ $T_{vJ} = 25^{\circ}\text{C}$; $t = 10$. ,	10 22 100	A A A
P _{tot}	T _C = 25°C	(per diode)	30	W

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

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.



Component				
Symbol	Conditions	Maximum Ratings		
T _{VJ} T _{stg}		-55+150 -55+125	°C	
V _{ISOL}	$I_{ISOL} \le 1 \text{ mA}$; 50/60 Hz	2500	V~	
F _c	mounting force with clip	20120	N	

Symbol	Conditions Characteristic Vamin. typ. max.			
C _p	coupling capacity between shorted pins and mounting tab in the case		40	pF
d _s ,d _A d _s ,d _A	pin - pin pin - backside metal	1.7 5.5		mm mm
Weight			9	9

