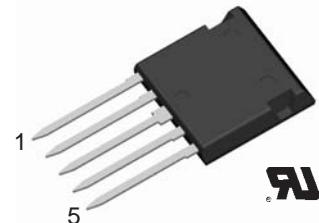
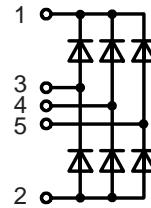


Schottky Three Phase Rectifier Bridge

in ISOPLUS i4-PAC™

V_{RRM} = 45 V
I_{D(AV)M} = 45 A



Rectifier Bridge

Symbol	Conditions	Maximum Ratings		
V _{RRM}		45		V
I _{FAV}	T _C = 90°C; sine 180° (per diode)	20		A
I _{D(AV)M}	T _C = 90°C (bridge)	45		A
I _{FSM}	T _{VJ} = 25°C; t = 10 ms; sine 50 Hz	150		A
P _{tot}	T _C = 25°C (per diode)	40		W

Symbol	Conditions	Characteristic Values		
		(T _{VJ} = 25°C, unless otherwise specified)	min.	typ.
V _F	I _F = 15 A; T _{VJ} = 25°C T _{VJ} = 125°C	0.55 0.5	0.65	V V
I _R	V _R = V _{RRM} ; T _{VJ} = 25°C T _{VJ} = 125°C	100	5	mA mA
C _J	V _R = 20 V	200		pF
R _{thJC}	(per diode)		3.1	kW

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

Component

Symbol	Conditions	Maximum Ratings		
T _{VJ}		-55...+150		°C
T _{stg}		-55...+125		°C
V _{ISOL}	I _{ISOL} ≤ 1 mA; 50/60 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
R _{thCH}	with heatsink compound	0.15		kW
d _{s,d_A}	pin - pin	1.7		mm
d _{s,d_A}	pin - backside metal	5.5		mm
Weight		9		g

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

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Features

- Schottky diodes
 - very low forward voltage
 - extremely fast switching
- ISOPLUS i4-PAC™ package
 - isolated back surface
 - low coupling capacity between pins and heatsink
 - enlarged creepage towards heatsink
 - application friendly pinout
 - high reliability
 - industry standard outline
 - UL registered E 72873

Applications

- high frequency rectifiers in
 - automotive drives and converters
 - hand held tools
 - low voltage power supplies
 - battery chargers
 - solar converters

Dimensions in mm (1 mm = 0.0394")

