



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

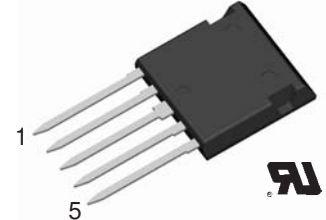
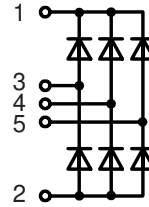


Schottky Three Phase Rectifier Bridge

in ISOPLUS i4-PAC™

$$V_{RRM} = 45 \text{ V}$$

$$I_{D(AV)M} = 45 \text{ A}$$



Rectifier Bridge

Symbol	Conditions	Maximum Ratings	
V_{RRM}		45	V
I_{FAV}	$T_C = 90^\circ\text{C}$; sine 180° (per diode)	20	A
$I_{D(AV)M}$	$T_C = 90^\circ\text{C}$ (bridge)	45	A
I_{FSM}	$T_{VJ} = 25^\circ\text{C}$; $t = 10 \text{ ms}$; sine 50 Hz	150	A
P_{tot}	$T_C = 25^\circ\text{C}$ (per diode)	40	W

Symbol	Conditions	Characteristic Values		
		$(T_{VJ} = 25^\circ\text{C}, \text{ unless otherwise specified})$		
		min.	typ.	max.
V_F	$I_F = 15 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $T_{VJ} = 125^\circ\text{C}$	0.55	0.65	V
I_R	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$ $T_{VJ} = 125^\circ\text{C}$	100	5	mA
C_J	$V_R = 20 \text{ V}$	200		pF
R_{thJC}	(per diode)			3.1

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

Component

Symbol	Conditions	Maximum Ratings	
T_{VJ}		-55...+150	$^\circ\text{C}$
T_{stg}		-55...+125	$^\circ\text{C}$
V_{ISOL}	$I_{ISOL} \leq 1 \text{ mA}$; 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.

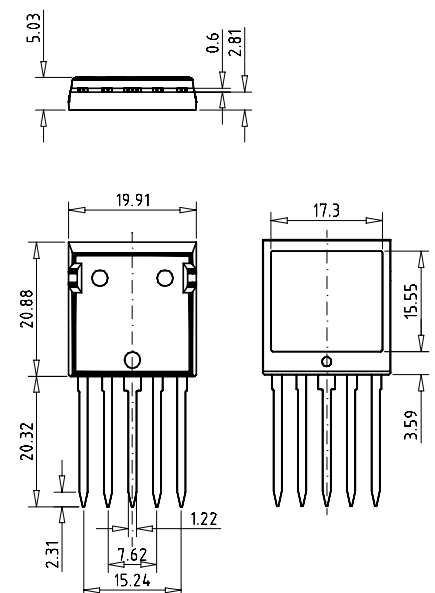
Features

- 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")



315