



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!



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HTZ120A Series

$$I_{F(AV)} = 2.0 \text{ A}$$

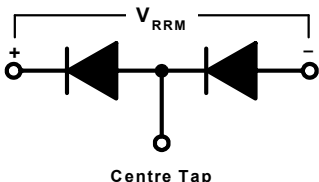
$$V_{RRM} = 51000 \text{ V}$$

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$	
HTZ120A51K	51000	54400	
HTZ120A44K	44000	48000	
HTZ120A38K	38000	41600	
HTZ120A32K	32000	35200	

CIRCUIT DIAGRAM



CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$ Mean forward current
 I_F Continuous (direct) forward current
 $R_{th(j-a)}$ Thermal resistance junction to ambient

Half wave resistive load $T_{amb} = 35^\circ\text{C}$
 $T_{amb} = 35^\circ\text{C}$

2.0 A
2.4 A
2.3 $^\circ\text{C/W}$

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$ Mean forward current
 I_T Continuous (direct) forward current
 $R_{th(j-o)}$ Thermal resistance junction to oil

Half wave resistive load $T_{oil} = 60^\circ\text{C}$
 $T_{oil} = 60^\circ\text{C}$

3.3 A
4.1 A
0.93 $^\circ\text{C/W}$

SURGE RATINGS

I^2t I^2t for fusing
 I_{FSM} Surge (non-repetitive) forward current

10 ms half sine $T_{vj} = 150^\circ\text{C}$
 $T_{vj} = 150^\circ\text{C}$

200 A^2sec
200 A

TEMPERATURE AND FREQUENCY RATINGS

T_{vj} Virtual junction temperature
 T_{stg} Storage temperature range
 f Frequency range

Forward (conducting)
Reverse (blocking)

180 $^\circ\text{C}$
180 $^\circ\text{C}$
-40 to 100 $^\circ\text{C}$
20 to 400 Hz

CHARACTERISTICS $T_{case} = 25^\circ\text{C}$ unless otherwise stated

V_{FM} Forward voltage
 I_{RM} Peak reverse current

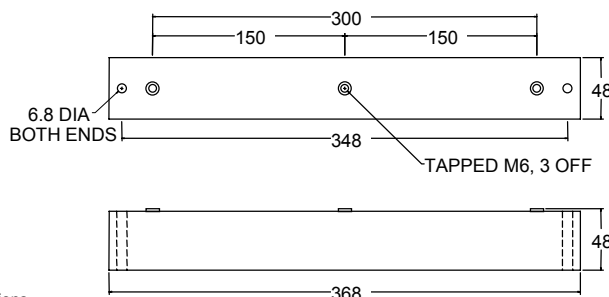
At 12 Amps peak
At V_{RRM} , $T_{case} = 150^\circ\text{C}$

max 36.8 V
max 0.5 mA

Dimensioned Outlines

Dimensions shown are maximum in mm

Weight typ.: 1,66 Kg



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

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IXYS
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$$I_{F(AV)} = 2.0 \text{ A}$$

$$V_{RRM} = 51000 \text{ V}$$

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