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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	Half wave resistive load $T_{amb} = 35^\circ\text{C}$	2.0	A
$I_F$	Continuous (direct) forward current	$T_{amb} = 35^\circ\text{C}$	2.4	A
$R_{th(j-a)}$	Thermal resistance junction to ambient		2.3	$^\circ\text{C/W}$

### CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{oil} = 60^\circ\text{C}$	3.3	A
$I_T$	Continuous (direct) forward current	$T_{oil} = 60^\circ\text{C}$	4.1	A
$R_{th(j-o)}$	Thermal resistance junction to oil		0.93	$^\circ\text{C/W}$

### SURGE RATINGS

$I^2t$	$I^2t$ for fusing	10 ms half sine $T_{vj} = 150^\circ\text{C}$	200	$\text{A}^2\text{sec}$
$I_{FSM}$	Surge (non-repetitive) forward current	$T_{vj} = 150^\circ\text{C}$	200	A

### TEMPERATURE AND FREQUENCY RATINGS

$T_{vj}$	Virtual junction temperature	Forward (conducting)	180	$^\circ\text{C}$
		Reverse (blocking)	180	$^\circ\text{C}$
$T_{stg}$	Storage temperature range		-40 to 100	$^\circ\text{C}$
f	Frequency range		20 to 400	Hz

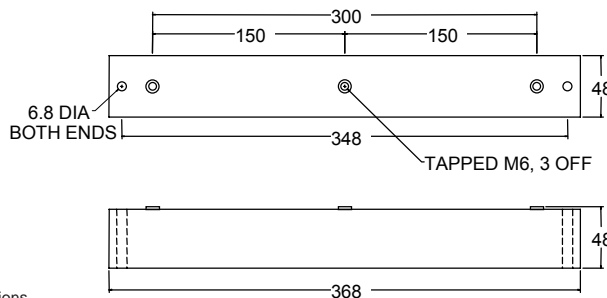
### CHARACTERISTICS $T_{case} = 25^\circ\text{C}$ unless otherwise stated

$V_{FM}$	Forward voltage	At 12 Amps peak	max 36.8	V
$I_{RM}$	Peak reverse current	At $V_{RRM}$ ; $T_{case} = 150^\circ\text{C}$	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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