

HTZ240F Series

$$I_{F(AV)} = 1.7 \text{ A}$$

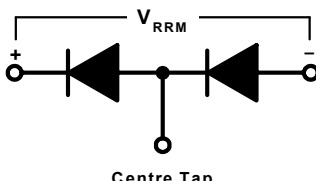
$$V_{RRM} = 16000 \text{ V}$$

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ240F16K	16000	17000
HTZ240F14K	14000	15000
HTZ240F12K	12000	13000
HTZ240F10K	10000	11000

CIRCUIT DIAGRAM



The circuit diagram shows a full-bridge rectifier. The input terminals are labeled with a '+' sign on the left and a '-' sign on the right, with the voltage across them labeled V_{RRM} . The bridge consists of four diodes. The center tap of the bridge is connected to a terminal labeled 'Centre Tap'.



The photograph shows a black rectangular module. It has two mounting tabs on the left. The top surface has two screws. A label on the side of the module reads: 'LARONTRON', 'IXYS', 'HTZ 240F 16K', and '16000V'. There are also some symbols on the label, including a cross and a circle with a line through it.

CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{amb} = 35^{\circ}\text{C}$	1.7	A
I_F	Continuous (direct) forward current	$T_{amb} = 35^{\circ}\text{C}$	1.9	A
$R_{th(j-a)}$	Thermal resistance junction to ambient		7.9	$^{\circ}\text{C/W}$

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{oil} = 60^{\circ}\text{C}$	4.0	A
I_T	Continuous (direct) forward current	$T_{oil} = 60^{\circ}\text{C}$	4.9	A
$R_{th(j-o)}$	Thermal resistance junction to oil		2.14	$^{\circ}\text{C/W}$

SURGE RATINGS

I^2t	I^2t for fusing	10 ms half sine $T_{vj} = 150^{\circ}\text{C}$	50	A^2sec
I_{FSM}	Surge (non-repetitive) forward current	$T_{vj} = 150^{\circ}\text{C}$	100	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

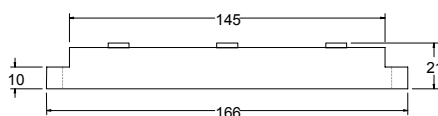
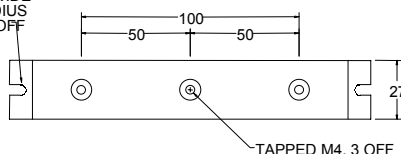
V_{FM}	Forward voltage	At 2 Amps peak	max 10.0	V
I_{RM}	Peak reverse current	At V_{RRM} , $T_{case} = 150^{\circ}\text{C}$	max 0.5	mA

Dimensioned Outlines

Dimensions shown are maximum in mm

Weight typ.: 0,20 Kg

SLOT 4.9 MIN. WIDE
WITH 2.45 RADIUS
ON INSIDE, 2 OFF



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

ZF

Issue 1 June 1998

Distributed by

USA
3540 Bassett Street
Santa Clara, CA 95054
Phone: (408) 982-0700
FAX: (408) 496-0670

EUROPE
IXYS Semiconductor GmbH
Lampertheim Germany
Phone: +49.6206.503.0
Fax: +49.6206.503.627

IXYS
www.IXYS.net

HTZ240F Series

$$I_{F(AV)} = 1.7 \text{ A}$$

$$V_{RRM} = 16000 \text{ V}$$

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

