

HTZ240F Series

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

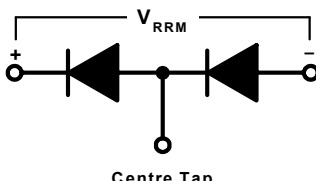
$$V_{RRM} = 16000 \text{ V}$$

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 illustrates the internal structure of the HTZ240F module. It features a center-tapped transformer. The two outer terminals of the secondary winding are connected to the cathodes of two diodes. The anodes of these diodes are connected to the positive and negative output terminals. The center tap of the transformer is connected to a common ground point, labeled 'Centre Tap'.



The photograph shows the physical HTZ240F16K module. It is a black, rectangular component with two mounting tabs on the left. The top surface has three screws. A label on the right side of the module provides the following information: LARONTECH, HTZ 240F 16K, 16000V, 10A, 100W, 100°C, 100%.

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 $T_{amb} = 35^\circ\text{C}$

$T_{amb} = 35^\circ\text{C}$

1.7 A

1.9 A

7.9 °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 $T_{oil} = 60^\circ\text{C}$

$T_{oil} = 60^\circ\text{C}$

4.0 A

4.9 A

2.14 °C/W

SURGE RATINGS

I^2t I^2t for fusing

I_{FSM} Surge (non-repetitive) forward current

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

$T_{vj} = 150^\circ\text{C}$

50 A²sec

100 A

TEMPERATURE AND FREQUENCY RATINGS

T_{vj} Virtual junction temperature

Forward (conducting)

180 °C

Reverse (blocking)

180 °C

T_{stg} Storage temperature range

-40 to 100 °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} , $T_{case} = 150^\circ\text{C}$

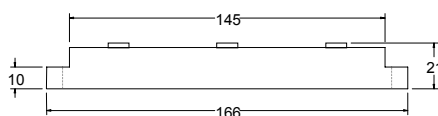
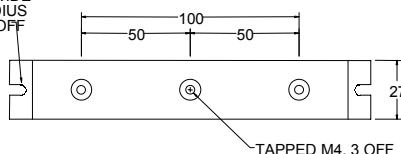
max 0.5 mA

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

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