

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

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 $T_{amb} = 35^\circ\text{C}$ 1.7 A
 $T_{amb} = 35^\circ\text{C}$ 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 $T_{oil} = 60^\circ\text{C}$ 4.0 A
 $T_{oil} = 60^\circ\text{C}$ 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 $T_{vj} = 150^\circ\text{C}$ 50 A²sec
 $T_{vj} = 150^\circ\text{C}$ 100 A

TEMPERATURE AND FREQUENCY RATINGS

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

Forward (conducting) 180 °C
 Reverse (blocking) 180 °C
 -40 to 100 °C
 20 to 400 Hz

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

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

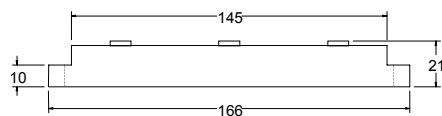
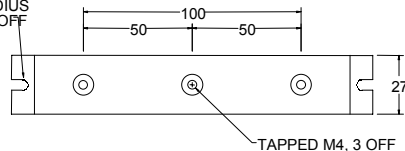
At 2 Amps peak max 10.0 V
 At V_{RRM} ; $T_{case} = 150^\circ\text{C}$ max 0.5 mA

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

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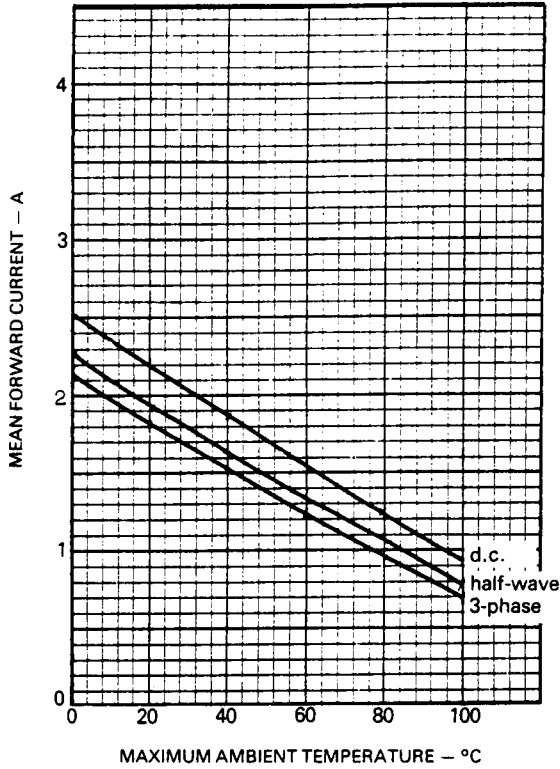
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AIR NATURAL COOLING



OIL COOLING

