

HTZ170C Series

$I_{F(AV)} = 10 \text{ A}$
 $V_{RRM} = 2800 \text{ V}$

High Voltage Diode Rectifier Module

LARONTROL

Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ170C2.8K	2800	3000
HTZ170C2.4K	2400	2600
HTZ170C2K	2000	2200

CIRCUIT DIAGRAM

Centre Tap



CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{amb} = 35^{\circ}\text{C}$	10	A
I_F	Continuous (direct) forward current	$T_{amb} = 35^{\circ}\text{C}$	10.8	A
$R_{th(j-a)}$	Thermal resistance junction to ambient		7	$^{\circ}\text{C/W}$

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{oil} = 60^{\circ}\text{C}$	21.5	A
I_T	Continuous (direct) forward current	$T_{oil} = 60^{\circ}\text{C}$	23.5	A
$R_{th(j-o)}$	Thermal resistance junction to oil		2.5	$^{\circ}\text{C/W}$

SURGE RATINGS

I^2t	I^2t for fusing	10 ms half sine $T_{vj} = 150^{\circ}\text{C}$	5000	A^2sec
I_{FSM}	Surge (non-repetitive) forward current	$T_{vj} = 150^{\circ}\text{C}$	1000	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

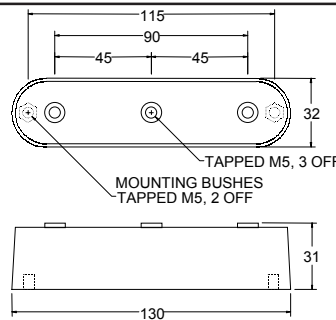
CHARACTERISTICS $T_{case} = 25^{\circ}\text{C}$ unless otherwise stated

V_{FM}	Forward voltage	At 40 Amps peak	max 1.9	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.: 0,28 Kg



ZC

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

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

HTZ170C Series

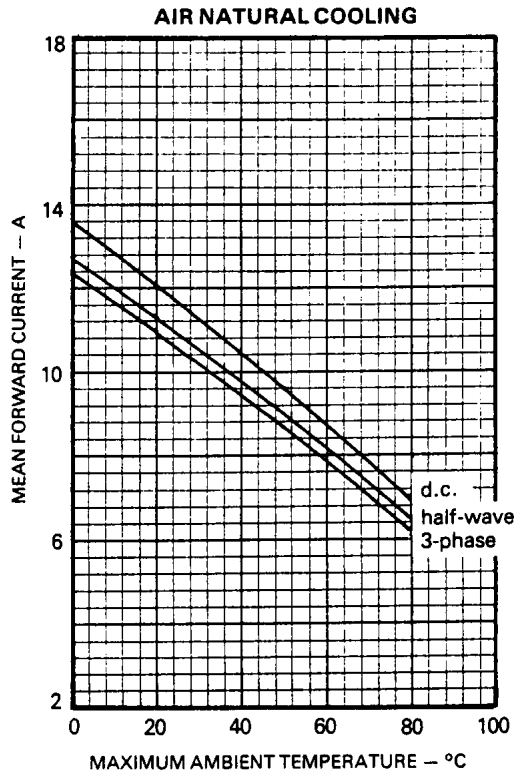
$$I_{F(AV)} = 10 \text{ A}$$

$$V_{RRM} = 2800 \text{ V}$$

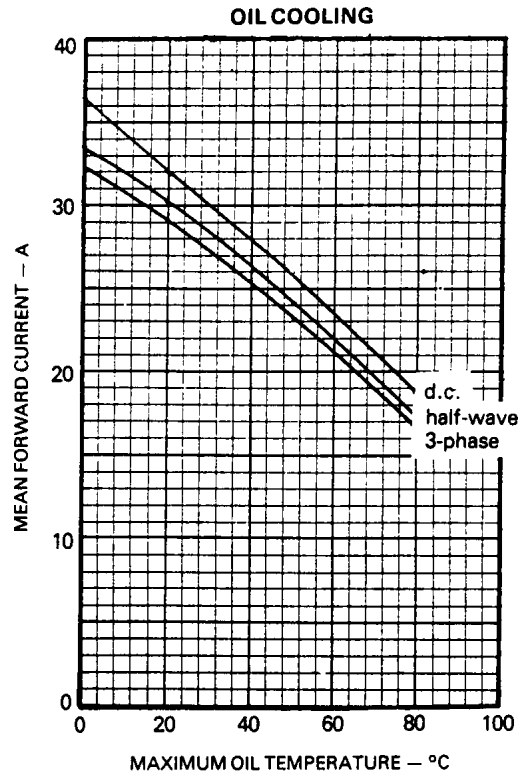
High Voltage Diode Rectifier Module

LARONTROL

Electronic Devices



DERATING CURVES



DERATING CURVES

