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# HTZ130B Series

$I_{F(AV)} = 1.0 \text{ A}$   
 $V_{RRM} = 38000 \text{ V}$

# High Voltage Diode Rectifier Module

# LARONTROL

Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ130B38K	38000	40800
HTZ130B33K	33000	36000
HTZ130B28K	28000	31200
HTZ130B24K	24000	26400

CIRCUIT DIAGRAM

CURRENT RATINGS - AIR COOLED			
$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{amb} = 35^\circ\text{C}$	1.0 A
$I_F$	Continuous (direct) forward current	$T_{amb} = 35^\circ\text{C}$	1.2 A
$R_{th(j-a)}$	Thermal resistance junction to ambient		5.7 $^\circ\text{C/W}$
CURRENT RATINGS - OIL COOLED			
$I_{F(AV)}$	Mean forward current	Half wave resistive load $T_{oil} = 60^\circ\text{C}$	3.1 A
$I_T$	Continuous (direct) forward current	$T_{oil} = 60^\circ\text{C}$	3.6 A
$R_{th(j-o)}$	Thermal resistance junction to oil		1.2 $^\circ\text{C/W}$
SURGE RATINGS			
$I^2t$	$I^2t$ for fusing	10 ms half sine $T_{vj} = 150^\circ\text{C}$	50 $\text{A}^2\text{sec}$
$I_{FSM}$	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 24.0 V
$I_{RM}$	Peak reverse current	At $V_{RRM}$ ; $T_{case} = 150^\circ\text{C}$	max 0.5 mA

<p><b>Dimensioned Outlines</b></p> <p>Dimensions shown are maximum in mm</p> <p>Weight typ.: 0,38 Kg</p>	
IXYS reserves the right to change limits, test conditions and dimensions.	<b>ZB</b> Issue 1 June 1998

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# HTZ130B Series

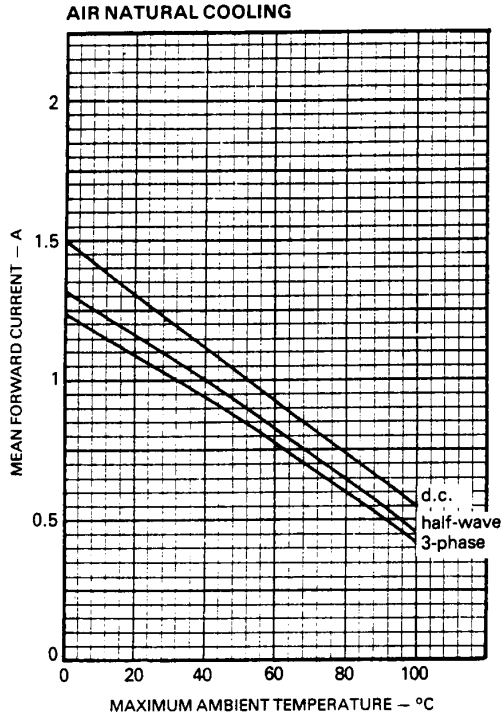
$I_{F(AV)} = 1.0 \text{ A}$

$V_{RRM} = 38000 \text{ V}$

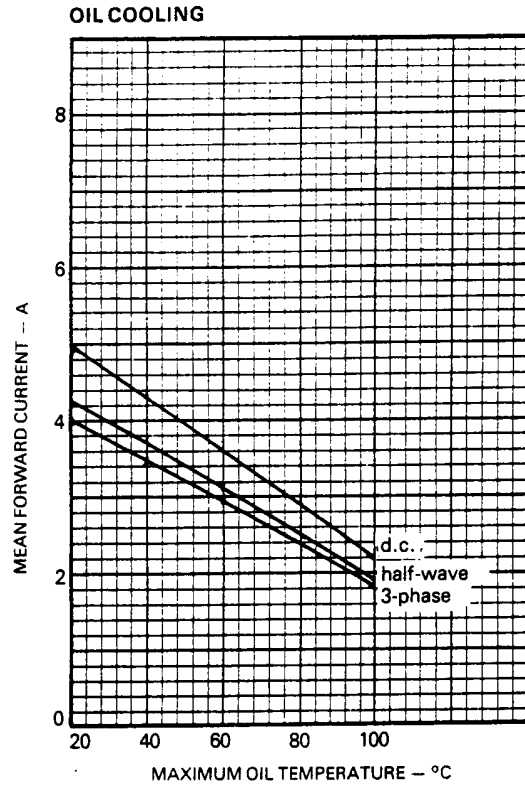
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DERATING CURVES



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