HTZ110A Series

$I_{F(AV)}$ = 3.5 A

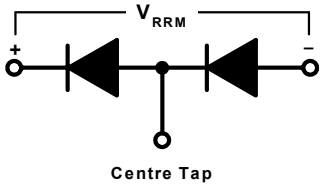
V_{RRM} = 25000 V

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ110A25K	25000	27200
HTZ110A22K	22000	24000
HTZ110A19K	19000	20800
HTZ110A16K	16000	17600

CIRCUIT DIAGRAM



CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load T_{amb} = 35ºC	3.5	A
I_F	Continuous (direct) forward current	T_{amb} = 35ºC	4.3	A
$R_{th(j-a)}$	Thermal resistance junction to ambient		2.3	ºC/W

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load T_{oil} = 60ºC	5.7	A
I_T	Continuous (direct) forward current	T_{oil} = 60ºC	7.0	A
$R_{th(j-o)}$	Thermal resistance junction to oil		0.93	ºC/W

SURGE RATINGS

I^2t	I^2t for fusing	10 ms half sine T_{vj} = 150ºC	200	A^2sec
I_{FSM}	Surge (non-repetitive) forward current	T_{vj} = 150ºC	200	A

TEMPERATURE AND FREQUENCY RATINGS

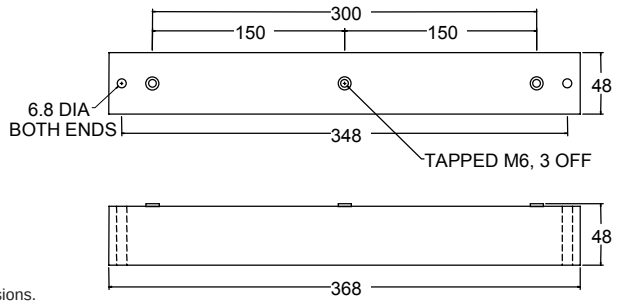
T_{vj}	Virtual junction temperature	Forward (conducting)	180	ºC
		Reverse (blocking)	180	ºC
T_{stg}	Storage temperature range		-40 to 100	ºC
f	Frequency range		20 to 400	Hz

CHARACTERISTICS T_{case} = 25ºC unless otherwise stated

V_{FM}	Forward voltage	At 12 Amps peak	max 18.3	V
I_{RM}	Peak reverse current	At V_{RRM}; T_{case} = 150°C	max 0.5	mA

Dimensioned Outlines
Dimensions shown are maximum in mm

Weight typ.: 1,55 Kg



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

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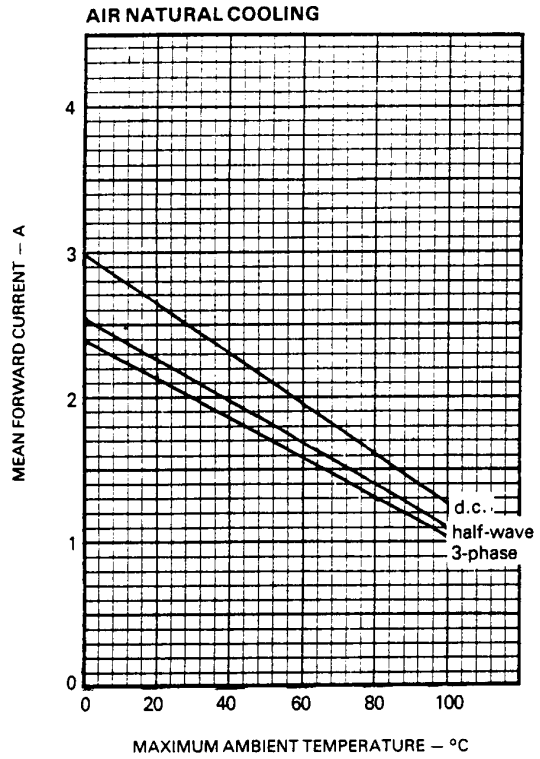
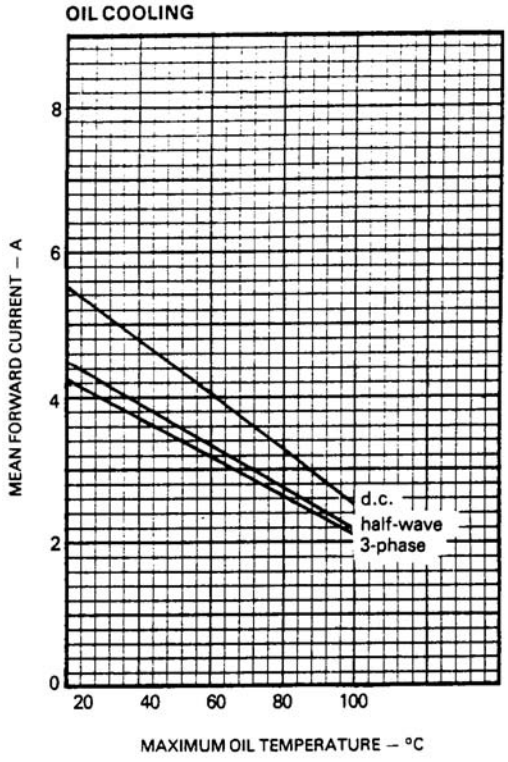
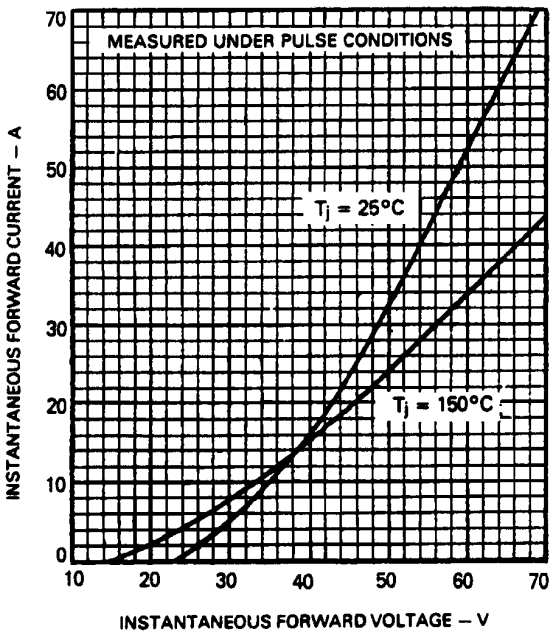


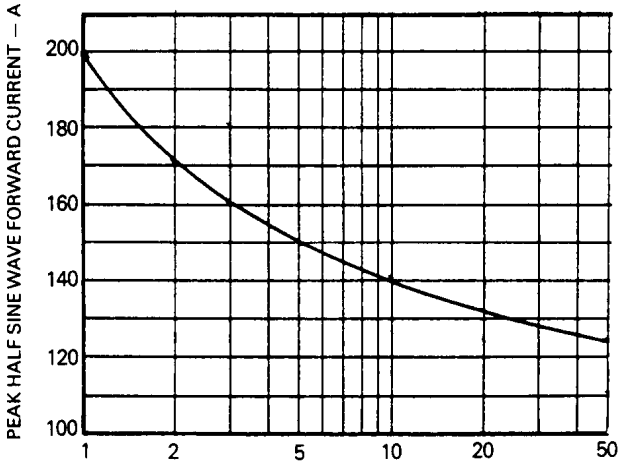
DERATING CURVES



DERATING CURVES



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS



SURGE (NON-REPETITIVE) FORWARD CURRENT VERSUS TIME
T_j = 150°C

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