HTZ180D Series

$I_{F(AV)}$ = 1.3 A

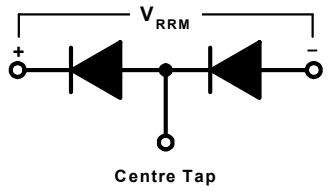
V_{RRM} = 35000 V

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ180D35K	35000	37400
HTZ180D30K	30000	33000
HTZ180D26K	26000	28600
HTZ180D22K	22000	24200

CIRCUIT DIAGRAM



CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load T_{amb} = 35ºC	1.3	A
I_F	Continuous (direct) forward current	T_{amb} = 35ºC	1.6	A
$R_{th(j-a)}$	Thermal resistance junction to ambient		4.7	ºC/W

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load T_{oil} = 60ºC	3.8	A
I_T	Continuous (direct) forward current	T_{oil} = 60ºC	4.5	A
$R_{th(j-o)}$	Thermal resistance junction to oil		1.1	ºC/W

SURGE RATINGS

I^2t	I^2t for fusing	10 ms half sine T_{vj} = 150ºC	50	A^2sec
I_{FSM}	Surge (non-repetitive) forward current	T_{vj} = 150ºC	100	A

TEMPERATURE AND FREQUENCY RATINGS

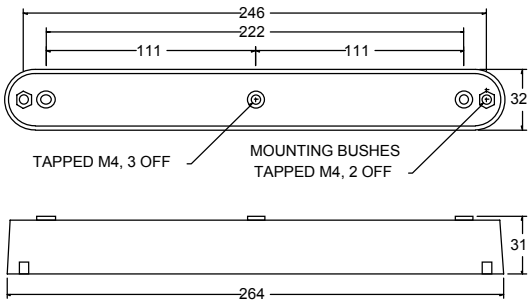
T_{vj}	Virtual junction temperature	Forward (conducting)	180	ºC
		Reverse (blocking)	180	ºC
T_{stg}	Storage temperature range		-40 to 100	ºC
f	Frequency range		20 to 400	Hz

CHARACTERISTICS T_{case} = 25ºC unless otherwise stated

V_{FM}	Forward voltage	At 2 Amps peak	max 22.0	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.: 0,50 Kg



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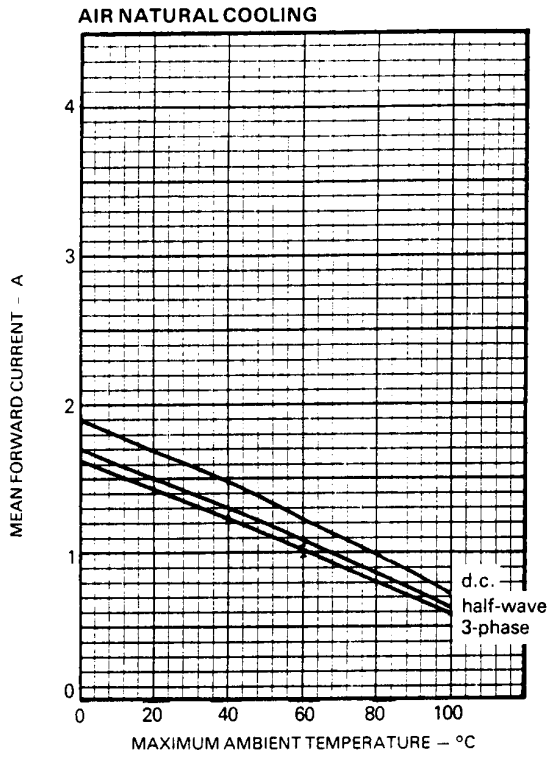
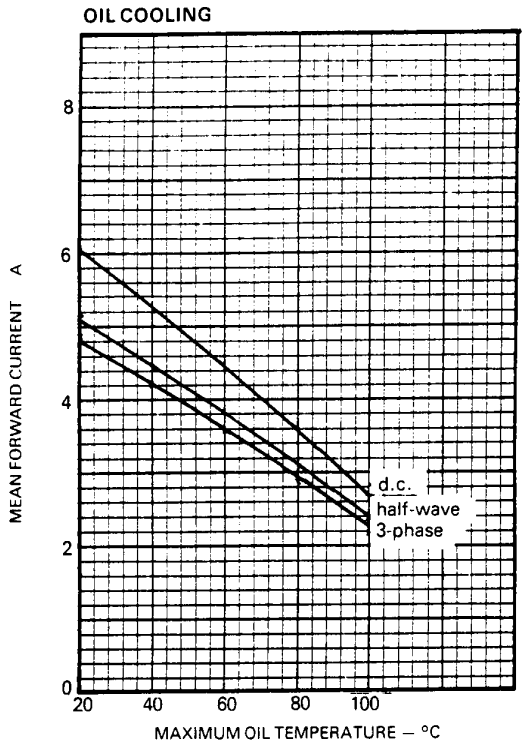
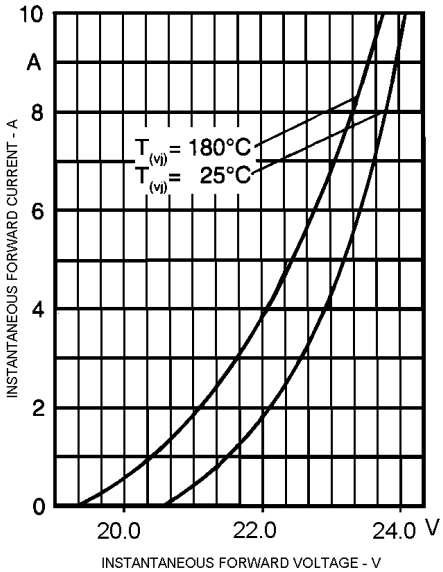


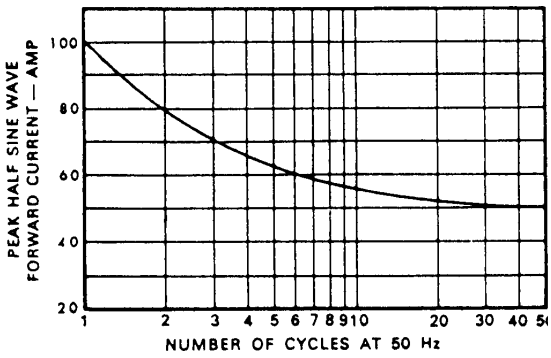
DERATING CURVES



DERATING CURVES



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS



SURGE (NON_REPETITIVE) FORWARD CURRENT VERSUS TIME with reverse voltage. T_j = 150°C

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