HTZ280H Series

$I_{F(AV)}$ = 4.7 A

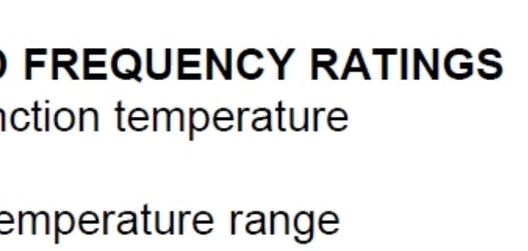
V_{RRM} = 32000 V

High Voltage Diode Rectifier Module

GD RECTIFIERS
The Custom Power Specialist

Type Number	Repetitive Peak Vrrm	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ280H32K	32000	34000
HTZ280H28K	28000	30000
HTZ280H24K	24000	26000
HTZ280H20K	20000	22000

CIRCUIT DIAGRAM



CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load T_{amb} = 35°C	4.7	A
I_F	Continuous (direct) forward current	T_{amb} = 35°C	5.7	A
$R_{th(j-a)}$	Thermal resistance junction to ambient		0.95	°C/W

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current	Half wave resistive load T_{oil} = 60°C	4.5	A
I_T	Continuous (direct) forward current	T_{oil} = 60°C	5.5	A
$R_{th(j-o)}$	Thermal resistance junction to oil		0.77	°C/W

SURGE RATINGS

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

TEMPERATURE AND FREQUENCY RATINGS

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

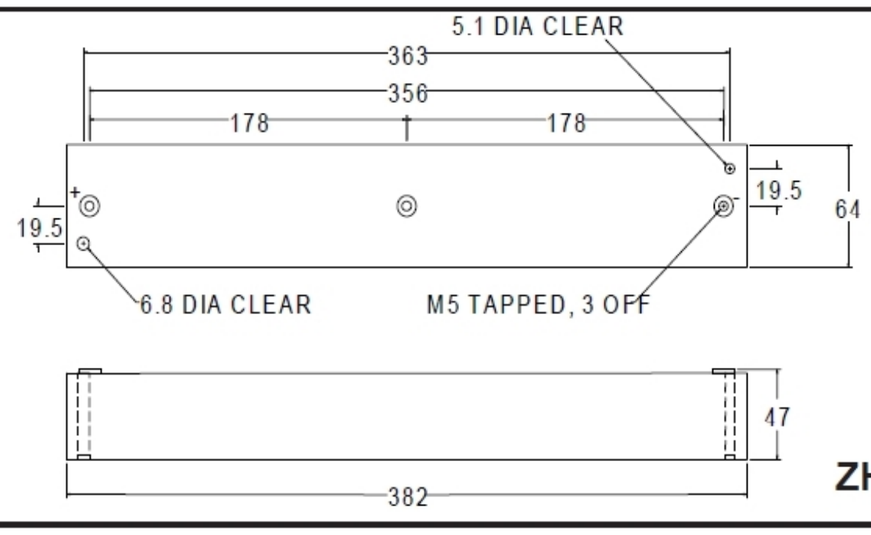
CHARACTERISTICS T_{case} = 25°C unless otherwise stated

V_{FM}	Forward voltage	At 12 Amps peak	max 23	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.: 2,0 Kg



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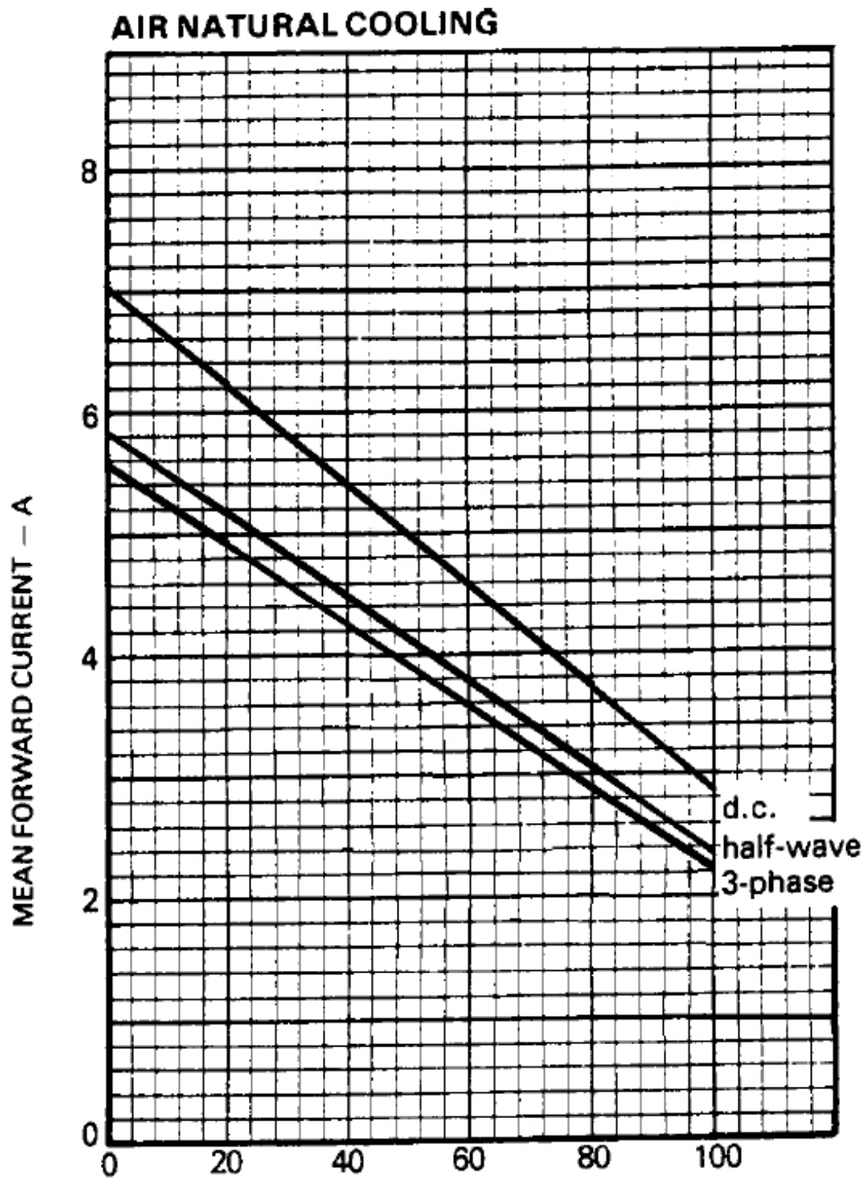
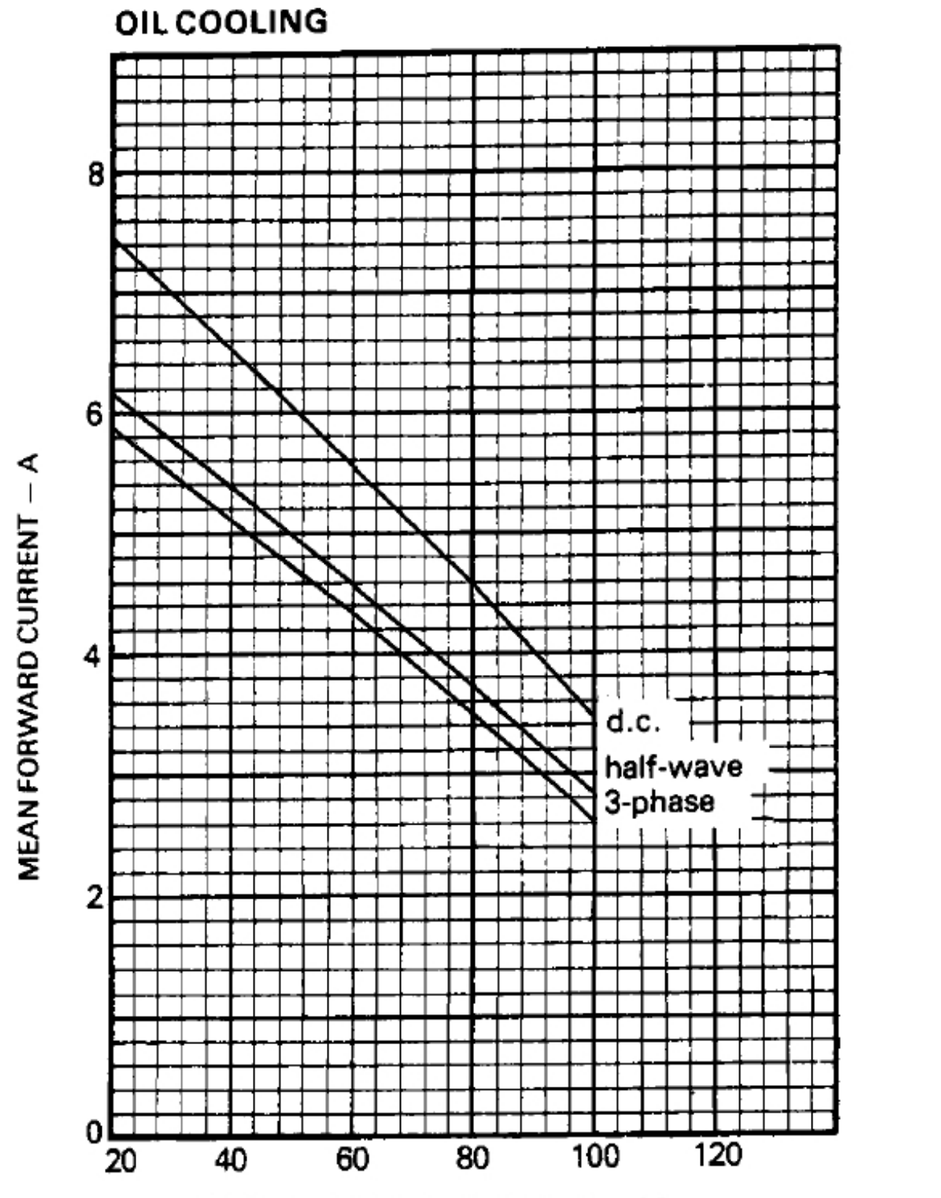
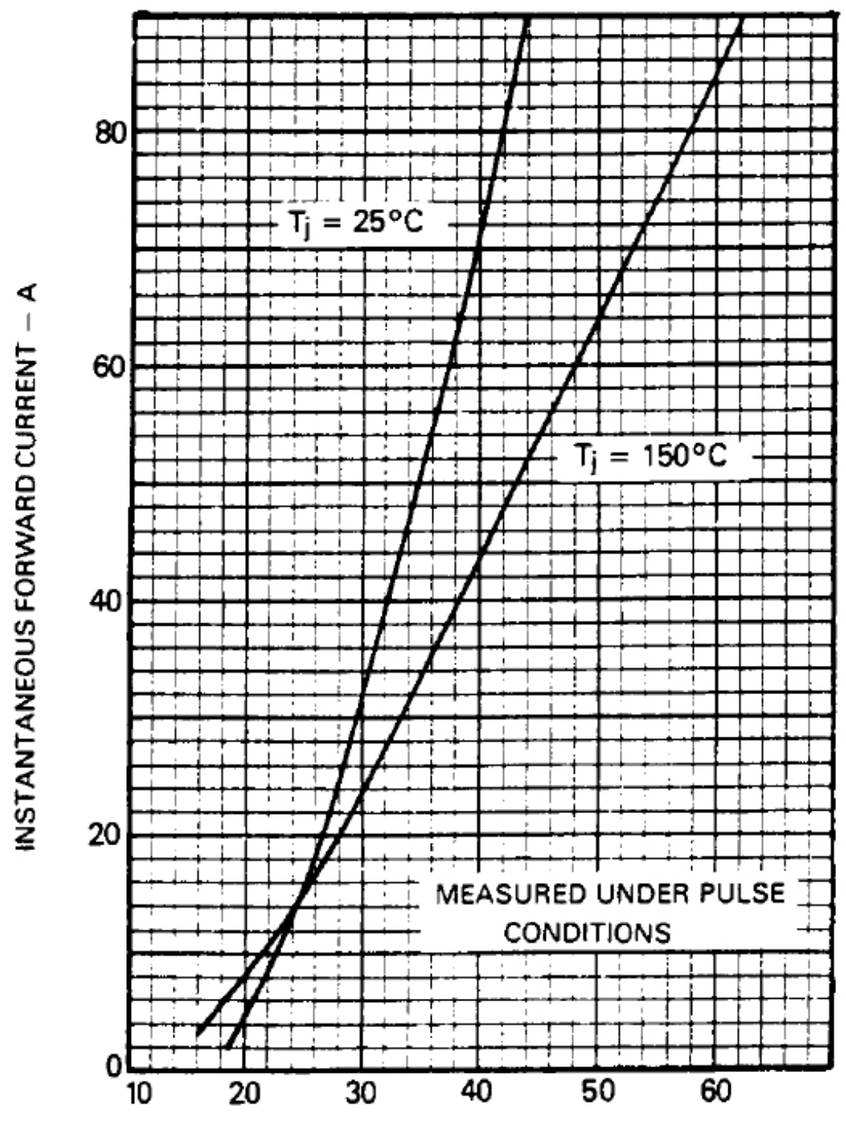


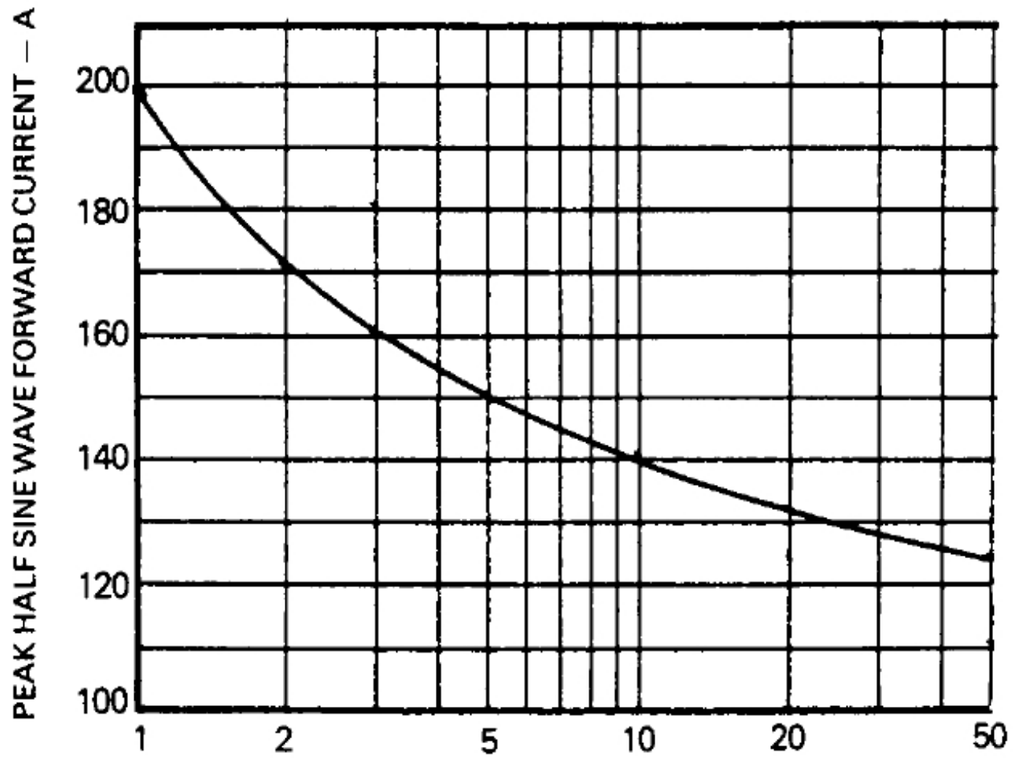
DERATING CURVES



DERATING CURVES



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS



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