Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

HTZ170C Series

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

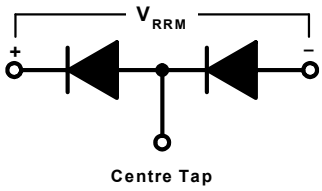
V_{RRM} = 2800 V

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



CURRENT RATINGS - AIR COOLED

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

CURRENT RATINGS - OIL COOLED

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

SURGE RATINGS

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

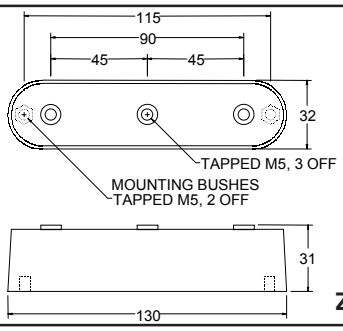
CHARACTERISTICS T_{case} = 25ºC unless otherwise stated

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



ZC

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

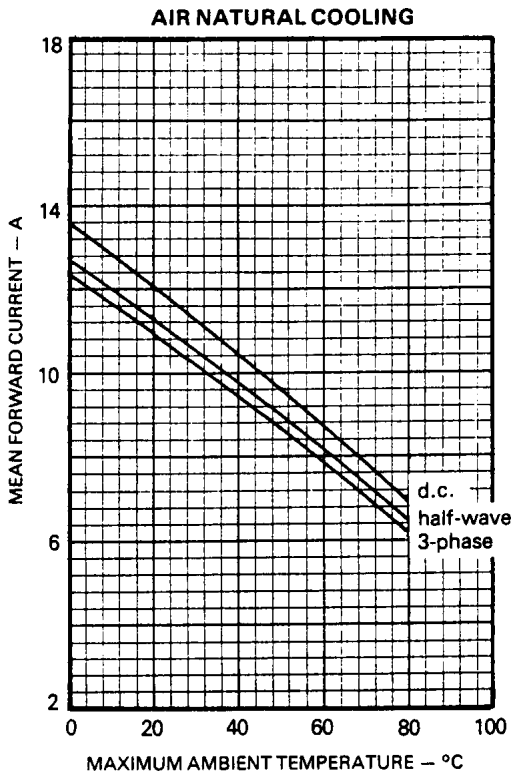
HTZ170C Series

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

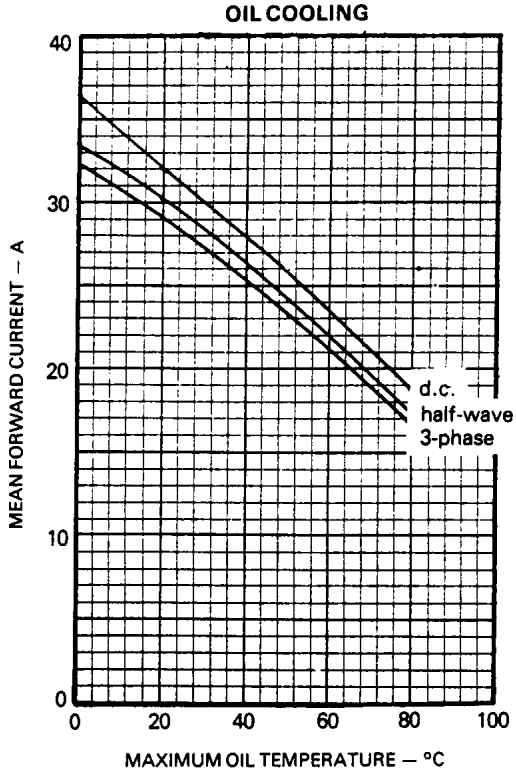
V_{RRM} = 2800 V

High Voltage Diode Rectifier Module

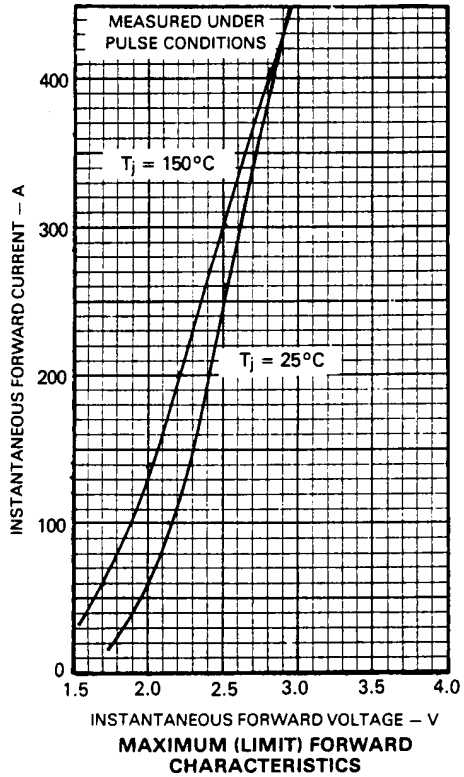
LARONTROL
Electronic Devices



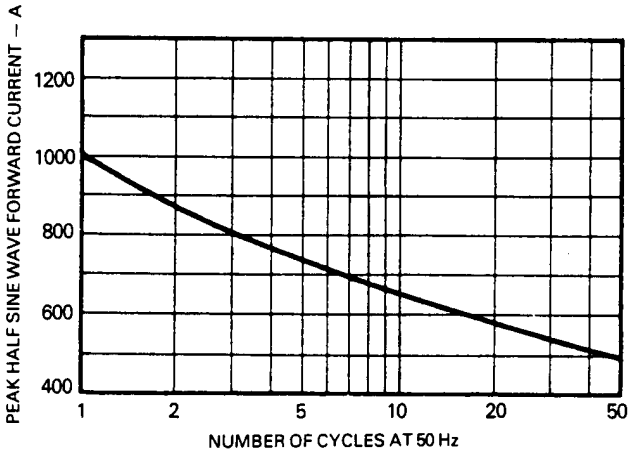
DERATING CURVES



DERATING CURVES



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS



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

Distributed by: IXYS Corporation • 3540 Bassett Street • Santa Clara, CA 95054 • Phone: 408-982-0700 • Fax: 408-496-0670
IXYS Semiconductor GmbH • Edisonstraße 15 • D-68623 Lampertheim • Phone: +49-6206-503-249 • Fax: +49-6206-503627