

HTZ150C Series

$$I_{F(AV)} = 3.0 \text{ A}$$

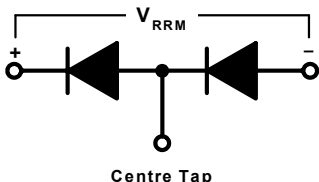
$$V_{RRM} = 9600 \text{ V}$$

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

Type Number	Repetitive Peak	Minimum Avalanche Voltage $V_{(BR)R}$
HTZ150C9K	9600	10200
HTZ150C8K	8400	9000
HTZ150C7K	7200	7800
HTZ150C6K	6000	6600

CIRCUIT DIAGRAM



CURRENT RATINGS - AIR COOLED

$I_{F(AV)}$	Mean forward current
I_F	Continuous (direct) forward current
$R_{th(j-a)}$	Thermal resistance junction to ambient

Half wave resistive load $T_{amb} = 35^\circ\text{C}$
 $T_{amb} = 35^\circ\text{C}$

3.0	A
3.6	A
6.5	$^\circ\text{C/W}$

CURRENT RATINGS - OIL COOLED

$I_{F(AV)}$	Mean forward current
I_T	Continuous (direct) forward current
$R_{th(j-o)}$	Thermal resistance junction to oil

Half wave resistive load $T_{oil} = 60^\circ\text{C}$
 $T_{oil} = 60^\circ\text{C}$

6.5	A
7.0	A
2.0	$^\circ\text{C/W}$

SURGE RATINGS

I^2t	I^2t for fusing
I_{FSM}	Surge (non-repetitive) forward current

10 ms half sine $T_{vj} = 150^\circ\text{C}$
 $T_{vj} = 150^\circ\text{C}$

50	A^2sec
100	A

TEMPERATURE AND FREQUENCY RATINGS

T_{vj}	Virtual junction temperature
T_{stg}	Storage temperature range
f	Frequency range

Forward (conducting)
Reverse (blocking)

180	$^\circ\text{C}$
180	$^\circ\text{C}$
-40 to 100	$^\circ\text{C}$
20 to 400	Hz

CHARACTERISTICS $T_{case} = 25^\circ\text{C}$ unless otherwise stated

V_{FM}	Forward voltage
I_{RM}	Peak reverse current

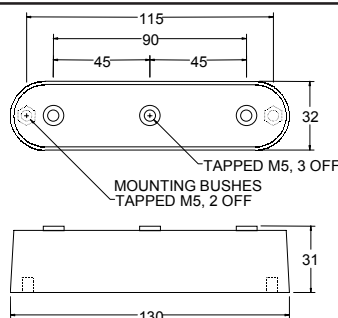
At 2 Amps peak
At V_{RRM} , $T_{case} = 150^\circ\text{C}$

max 6.0	V
max 0.5	mA

Dimensioned Outlines

Dimensions shown are maximum in mm

Weight typ.: 0,24 Kg



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

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

HTZ150C Series

$$I_{F(AV)} = 3.0 \text{ A}$$

$$V_{RRM} = 9600 \text{ V}$$

High Voltage Diode Rectifier Module

LARONTROL
Electronic Devices

