

## HTZ250G Series

$$I_{F(AV)} = 2.7 \text{ A}$$

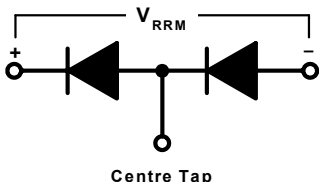
$$V_{RRM} = 44800 \text{ V}$$

## High Voltage Diode Rectifier Module

**LARONTROL**  
Electronic Devices

| Type Number | Repetitive Peak | Minimum Avalanche Voltage $V_{(BR)R}$ |  |
|-------------|-----------------|---------------------------------------|--|
| HTZ250G44K  | 44800           | 47600                                 |  |
| HTZ250G39K  | 39200           | 42000                                 |  |
| HTZ250G33K  | 33600           | 36400                                 |  |
| HTZ250G28K  | 28000           | 30800                                 |  |

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  $T_{amb} = 35^\circ\text{C}$

$T_{amb} = 35^\circ\text{C}$

2.7 A

3.3 A

1.8  $^\circ\text{C/W}$

### 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  $T_{oil} = 60^\circ\text{C}$

$T_{oil} = 60^\circ\text{C}$

3.5 A

4.3 A

0.97  $^\circ\text{C/W}$

### SURGE RATINGS

$I^2t$   $I^2t$  for fusing

$I_{FSM}$  Surge (non-repetitive) forward current

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

$T_{vj} = 150^\circ\text{C}$

200  $\text{A}^2\text{sec}$

200 A

### TEMPERATURE AND FREQUENCY RATINGS

$T_{vj}$  Virtual junction temperature

Forward (conducting)

180  $^\circ\text{C}$

Reverse (blocking)

180  $^\circ\text{C}$

$T_{stg}$  Storage temperature range

-40 to 100  $^\circ\text{C}$

$f$  Frequency range

20 to 400 Hz

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

$V_{FM}$  Forward voltage

At 12 Amps peak

max 32 V

$I_{RM}$  Peak reverse current

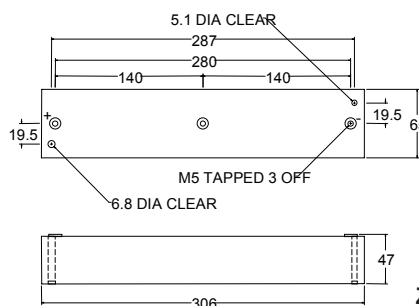
At  $V_{RRM}$ ;  $T_{case} = 150^\circ\text{C}$

max 0.5 mA

### Dimensioned Outlines

Dimensions shown are maximum in mm

Weight typ.: 2,0 Kg



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

**ZG**

Issue 1 June 1998

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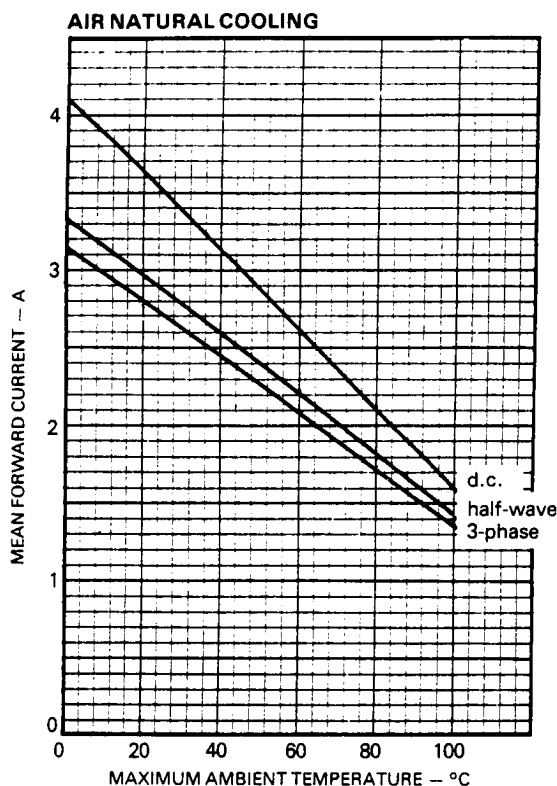
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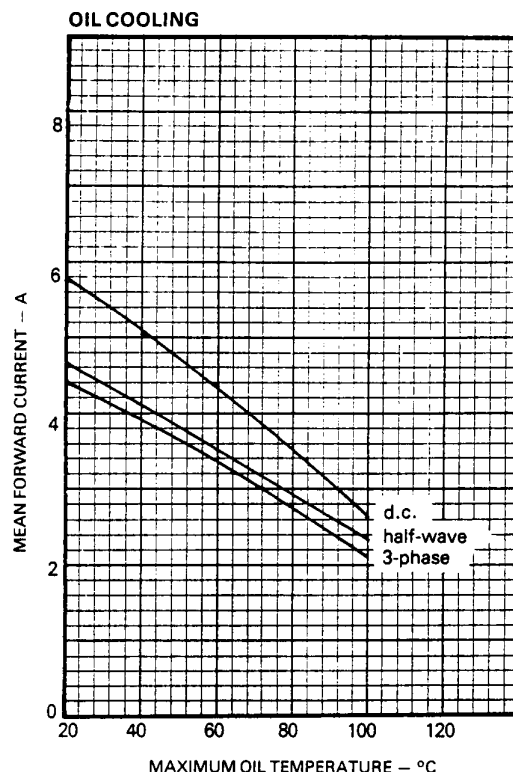
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DERATING CURVES



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