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HTZ110A Series

$I_{F(AV)} = 3.5 \text{ A}$
 $V_{RRM} = 25000 \text{ V}$

High Voltage Diode Rectifier Module

LARONTROL

Electronic Devices

| Type Number | Repetitive Peak | Minimum Avalanche Voltage $V_{(BR)R}$ |
|-------------|-----------------|---------------------------------------|
| HTZ110A25K | 25000 | 27200 |
| HTZ110A22K | 22000 | 24000 |
| HTZ110A19K | 19000 | 20800 |
| HTZ110A16K | 16000 | 17600 |

CIRCUIT DIAGRAM

CURRENT RATINGS - AIR COOLED

| | | | | |
|---------------|--|---|-----|--------------------|
| $I_{F(AV)}$ | Mean forward current | Half wave resistive load $T_{amb} = 35^\circ\text{C}$ | 3.5 | A |
| I_F | Continuous (direct) forward current | $T_{amb} = 35^\circ\text{C}$ | 4.3 | A |
| $R_{th(j-a)}$ | Thermal resistance junction to ambient | | 2.3 | $^\circ\text{C/W}$ |

CURRENT RATINGS - OIL COOLED

| | | | | |
|---------------|-------------------------------------|---|------|--------------------|
| $I_{F(AV)}$ | Mean forward current | Half wave resistive load $T_{oil} = 60^\circ\text{C}$ | 5.7 | A |
| I_T | Continuous (direct) forward current | $T_{oil} = 60^\circ\text{C}$ | 7.0 | A |
| $R_{th(j-o)}$ | Thermal resistance junction to oil | | 0.93 | $^\circ\text{C/W}$ |

SURGE RATINGS

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

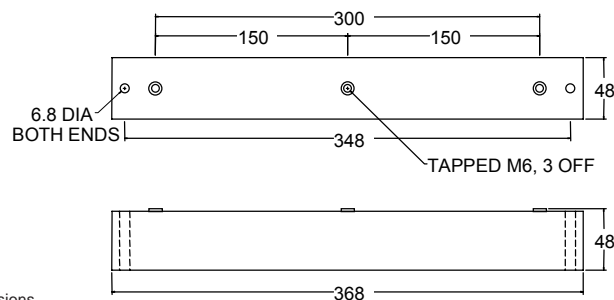
CHARACTERISTICS $T_{case} = 25^\circ\text{C}$ unless otherwise stated

| | | | | |
|----------|----------------------|---|----------|----|
| V_{FM} | Forward voltage | At 12 Amps peak | max 18.3 | 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.: 1,55 Kg



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

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