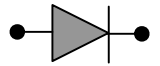


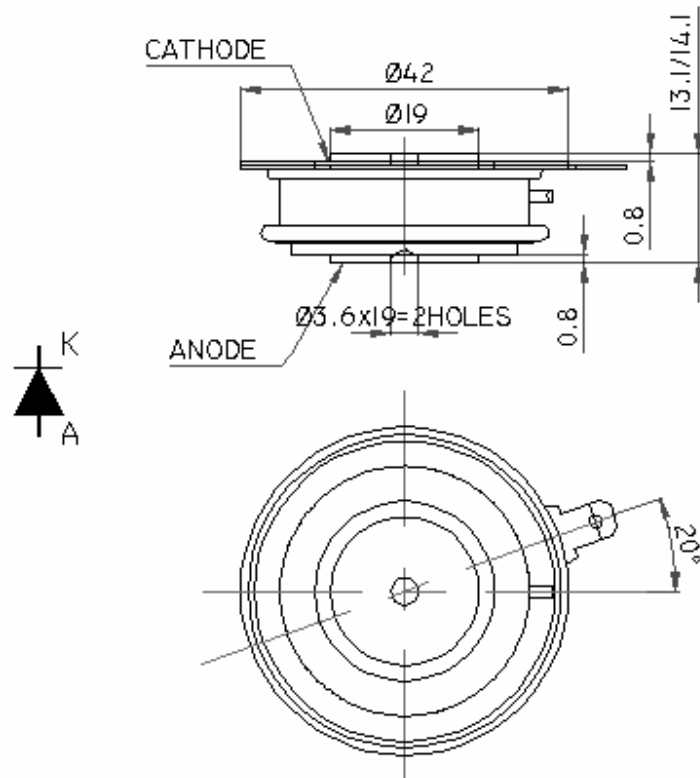
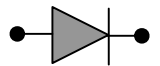
Capsule Type Rectifier Diode SHXXC760



| Symbol | Characteristics | Conditions | $T_J(^{\circ}\text{C})$ | Value | Unit |
|--|---|--|-------------------------|-----------|-------------------|
| BLOCKING PARAMETERS | | | | | |
| V_{RRM} | Repetitive peak reverse voltage | | 180 | 200-600 | V |
| I_{RRM} | Repetitive peak reverse current | $V = V_{RRM}$ | 180 | 25 | mA |
| CONDUCTING PARAMETERS | | | | | |
| $I_{F(AV)}$ | Average on-state current | 180 sine, 50Hz, $T_C = 104^{\circ}\text{C}$ | | 760 | A |
| I_{RMS} | RMS on-state current | | | 1200 | A |
| I_{FSM} | Non repetitive peak surge on-state current | Sine wave, 10mS without reverse voltage | 180 | 8500 | A |
| I^2t | Permissible surge energy | | | 361 | KA ² S |
| V_{FM} | Peak on-state voltage drop | On-state current = 2000A | 180 | 1.39 | V |
| V_0 | Typical forward conduction Threshold voltage | | 180 | 0.70 | V |
| r_0 | Typical forward slope resistance | | 180 | 0.30 | m Ω |
| THERMAL & MECHANICAL PARAMETERS | | | | | |
| $R_{TH(J-C)}$ | Thermal impedance, 180 ^o conduction, Sine | Junction to case | | 0.079 | ^o C/W |
| $R_{TH(C-HK)}$ | Thermal impedance | Case to heatsink | | 0.015 | ^o C/W |
| T_J | Maximum Permissible junction temperature | | | 180 | ^o C |
| T_{STG} | Storage temperature range | | | -40 – 180 | ^o C |
| F | Mounting Torque | | | 6.5 | KN |
| W | Weight | | | 70 | gms |

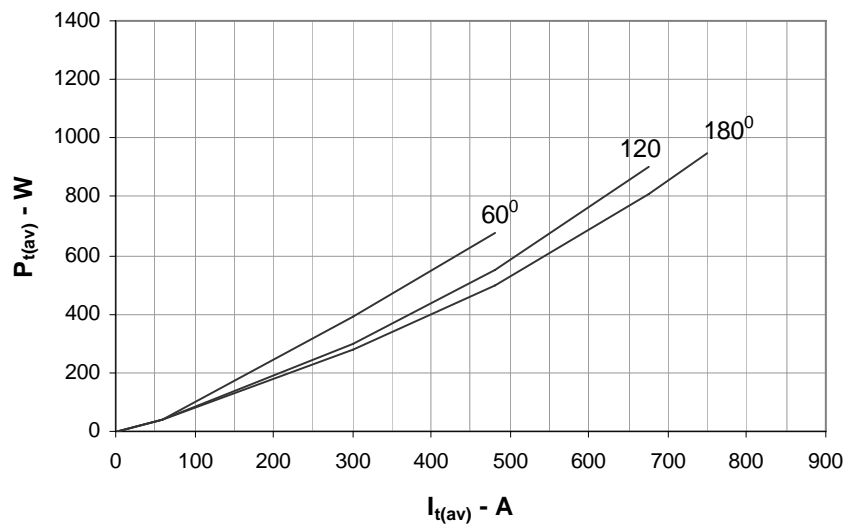


Capsule Type Rectifier Diode SHXXC760



All dimensions in mm

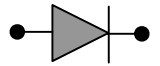
On State Power Loss



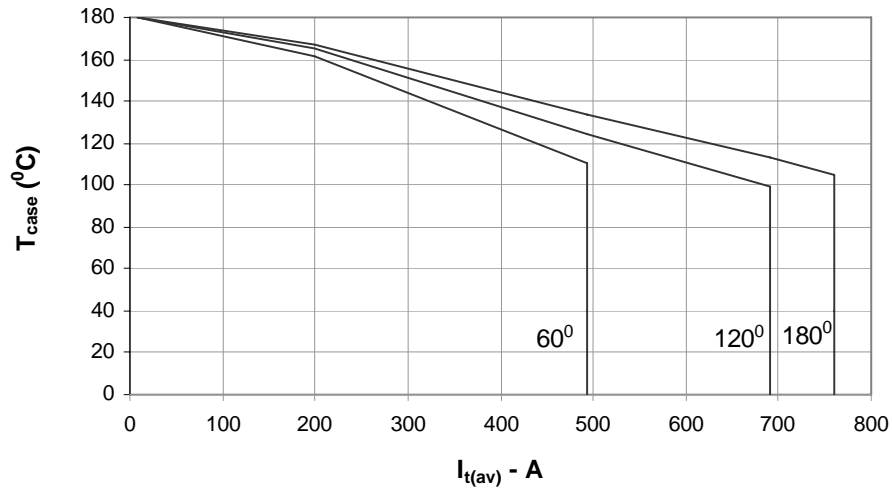
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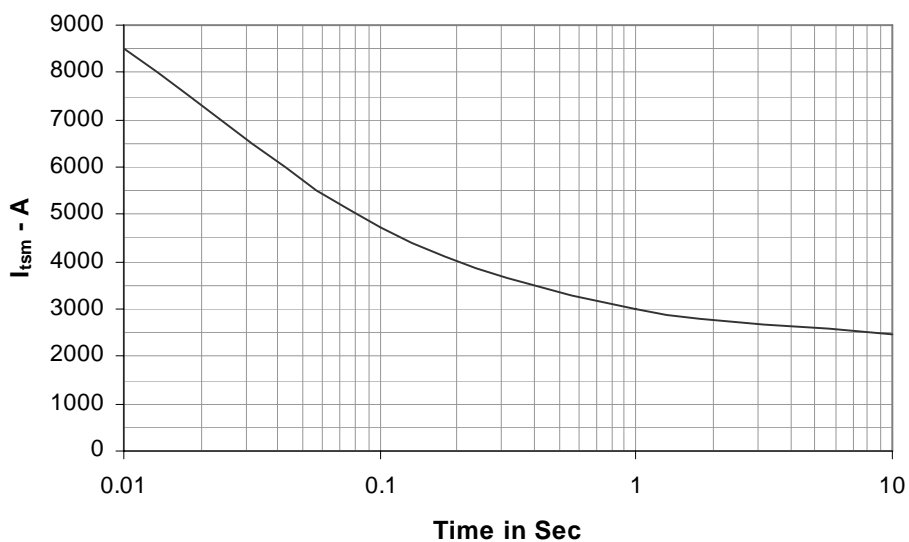
Capsule Type Rectifier Diode SHXXC760



Maximum Permissible Case Temp



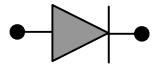
Max non repetitive Surge Current



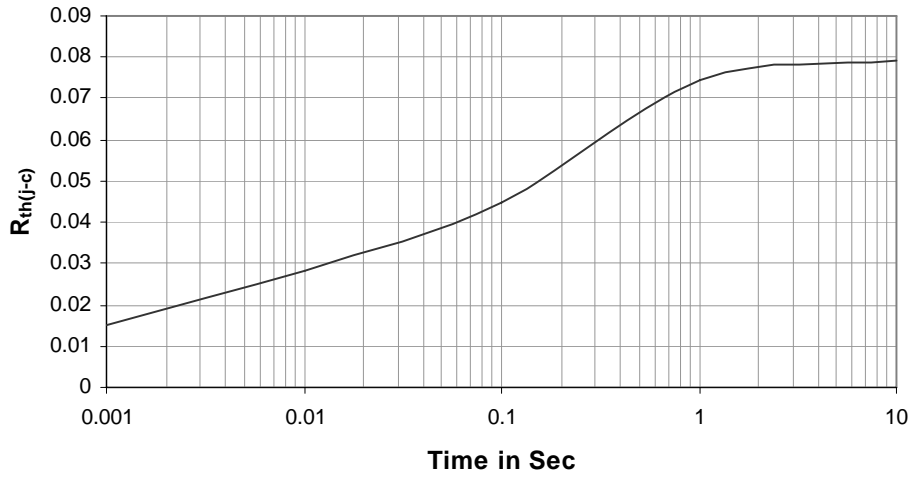
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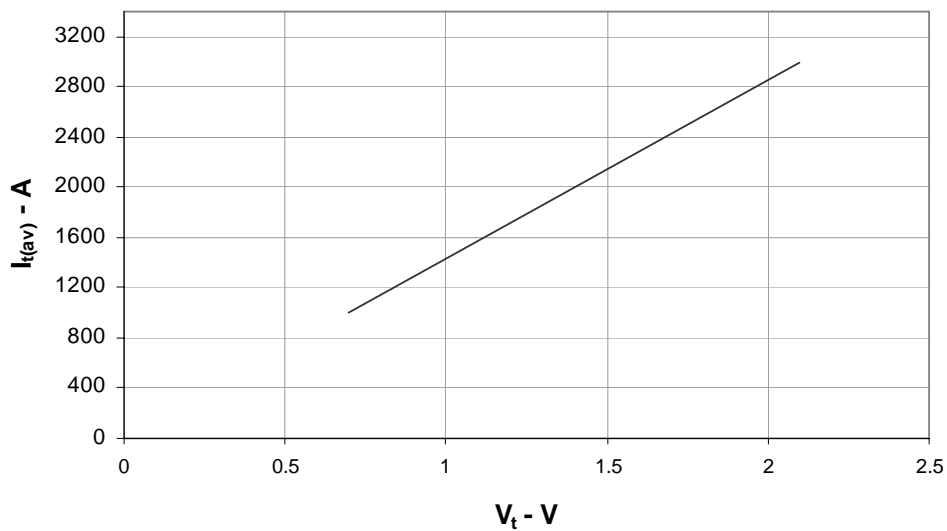
Capsule Type Rectifier Diode SHXXC760



Transient Thermal Impedance Junction to Case



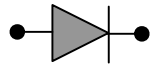
On State Characteristics



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Capsule Type Rectifier Diode SHXXC760



Ordering Information: -

| SH | XX | C | 760 |
|------------------------------|---|---------------|--------------------|
| Hirect make Capsule Diode | $V_{RRM} = XX * 100$ e.g.6 * 100 =600V | Capsule Diode | $I_{F(AV)} = 760A$ |

Hind Rectifiers Ltd reserves the right to change the specifications without notice.

This datasheet specifies technical information for semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

Hind Rectifiers Ltd

Lake Road

Bhandup (West)

Mumbai – 400 078

Tel: - +91 22 2596 8027/28/29/31

Fax: - +91 22 2596 4114

E-mail: - marketing@hirect.com

Website: - www.hirect.com

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