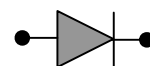


## Rectifier Diode SXXHN/HR16

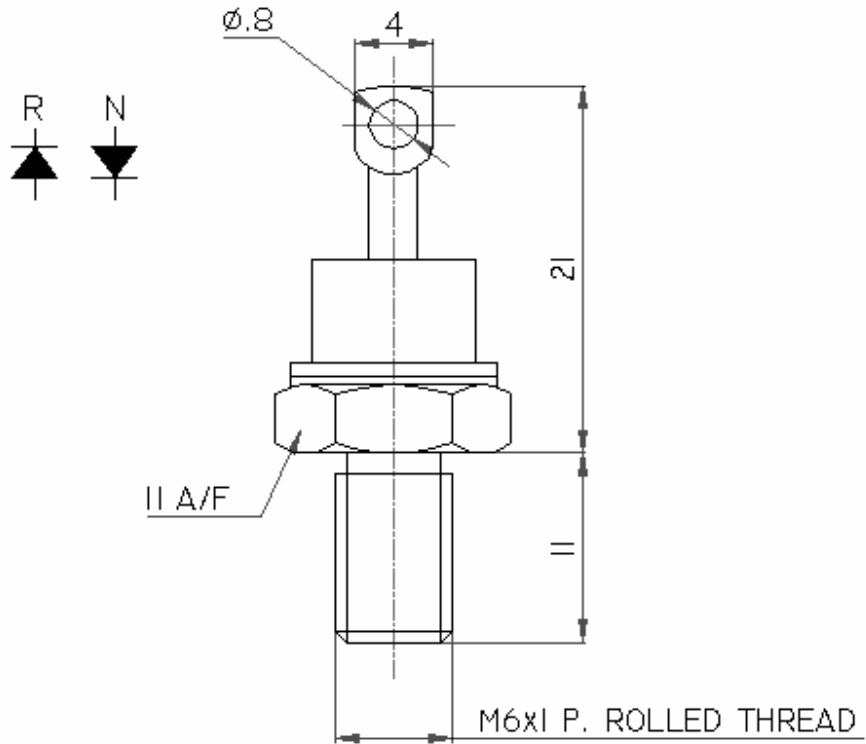
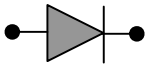


Symbol	Characteristics	Conditions	$T_J(^{\circ}\text{C})$	Value	Unit
<b>BLOCKING PARAMETERS</b>					
$V_{RRM}$	Repetitive peak reverse voltage		180	200-1500	V
$I_{RRM}$	Repetitive peak reverse current	$V = V_{RRM}$	180	4	mA
<b>CONDUCTING PARAMETERS</b>					
$I_{F(AV)}$	Average on-state current	180 sine, 50Hz, $T_C = 130^{\circ}\text{C}$		16	A
$I_{RMS}$	RMS on-state current			25	A
$I_{FSM}$	Non repetitive peak surge on-state current	Sine wave, 10mS without reverse voltage	180	300	A
$I^2t$	Permissible surge energy			450	A <sup>2</sup> S
$V_{FM}$	Peak on-state voltage drop	On-state current = 50A	180	1.55	V
$V_0$	Typical forward conduction Threshold voltage		180	0.82	V
$r_0$	Typical forward slope resistance		180	8.30	m $\Omega$
<b>THERMAL &amp; MECHANICAL PARAMETERS</b>					
$R_{TH(J-C)}$	Thermal impedance, 180 <sup>o</sup> conduction, Sine	Junction to case		1.50	<sup>o</sup> C/W
$R_{TH(C-HK)}$	Thermal impedance	Case to heatsink		0.25	<sup>o</sup> C/W
$T_J$	Maximum Permissible junction temperature			180	<sup>o</sup> C
$T_{STG}$	Storage temperature range			-40 – 180	<sup>o</sup> C
F	Mounting Torque			2	NM
W	Weight			10	gms



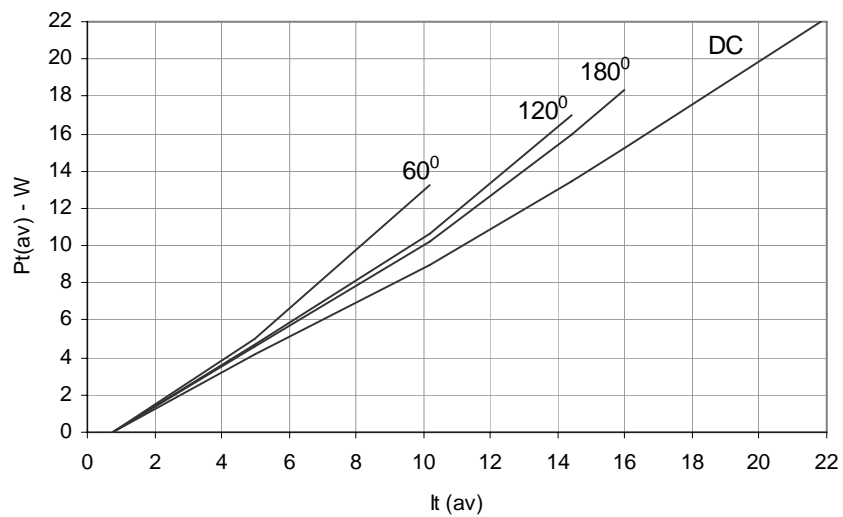
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# Rectifier Diode SXXHN/HR16



All dimensions in mm

## On State Power Loss

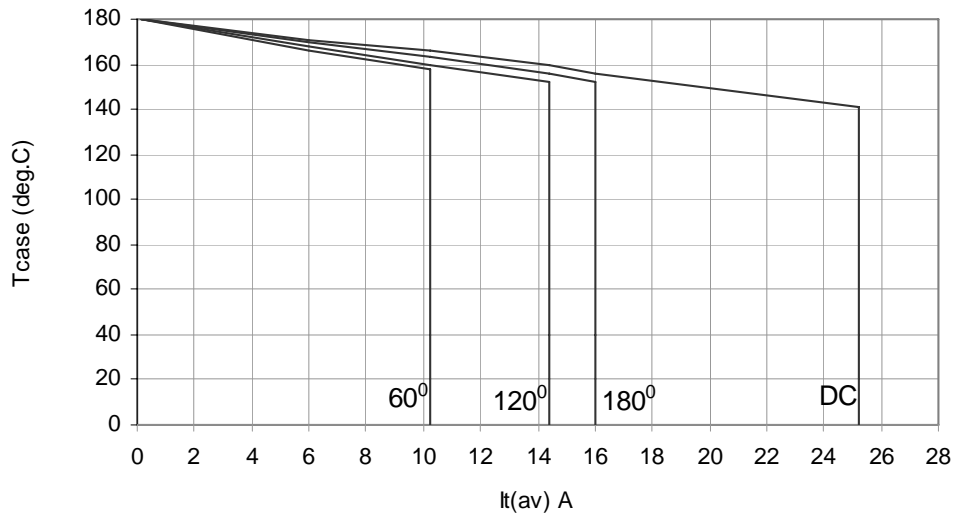


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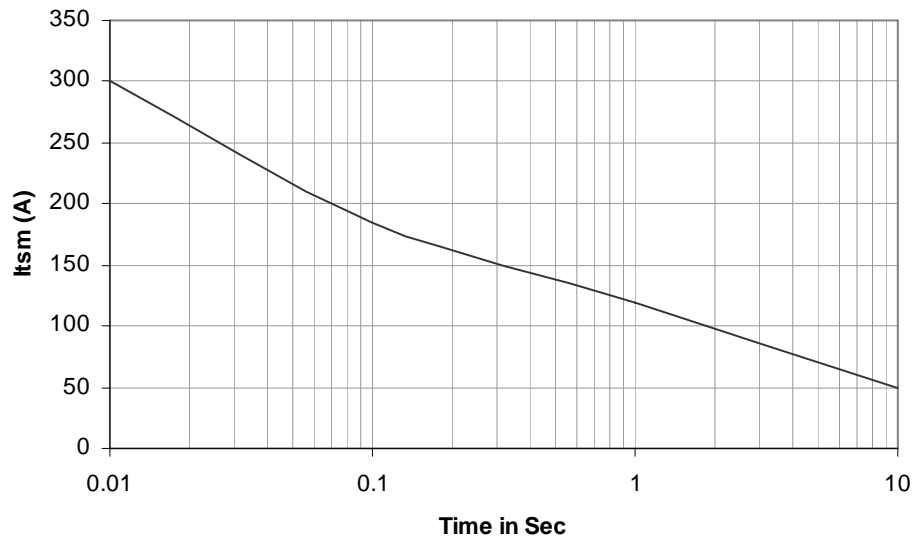
# Rectifier Diode SXXHN/HR16

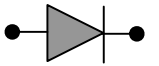


## Maximum Permissible Case Temp

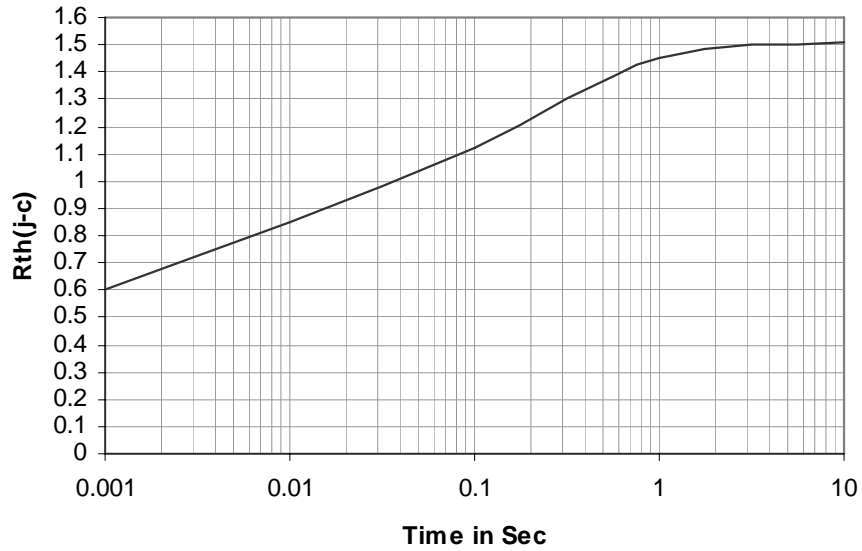


## Max non repetitive Surge Current

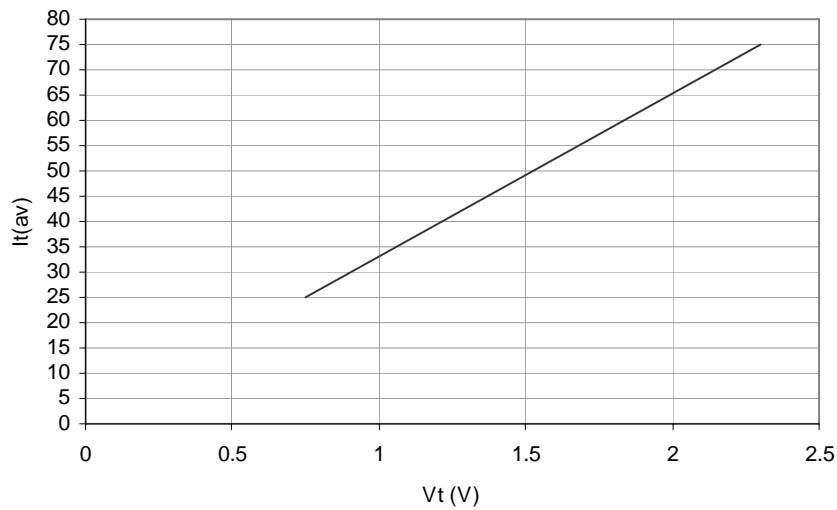




Transient Thermal Impedance Junction to Case



On State Characteristics



## Rectifier Diode SXXHN/HR16



### Ordering Information: -

<b>S</b>	<b>XX</b>	<b>HN / HR</b>	<b>16</b>
Hirect make Rectifier Diode	$V_{RRM} = XX * 100$ e.g.12 * 100 =1200V	HN – Normal Polarity HR – Reverse Polarity	$I_{F(AV)} = 16A$

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.

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