

Rectifier Diode SXXHNS/HRS201

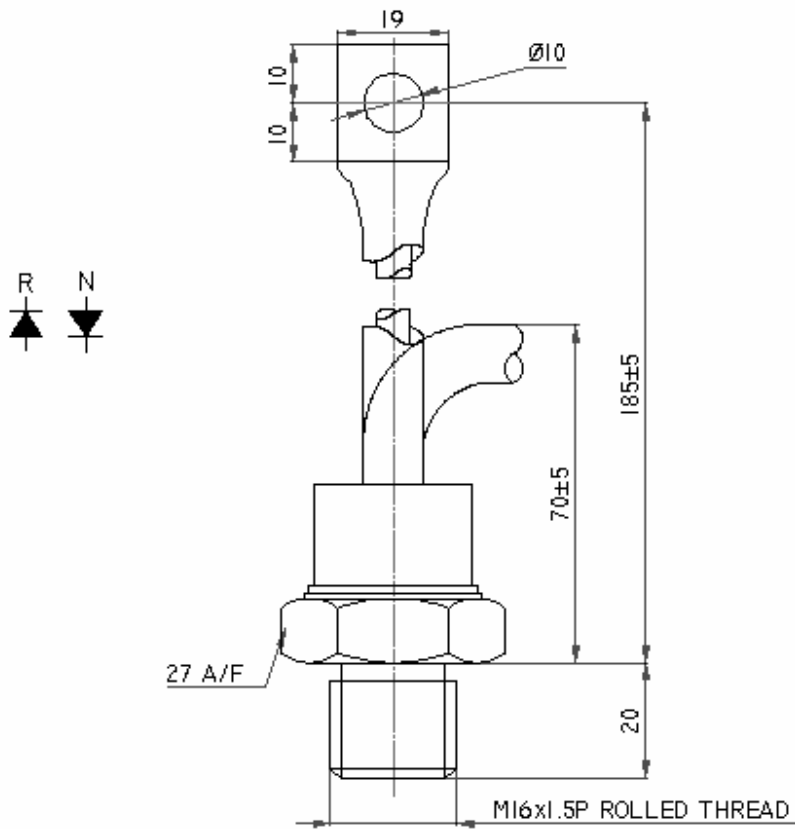
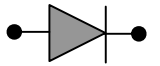


Symbol	Characteristics	Conditions	T _J (°C)	Value	Unit
BLOCKING PARAMETERS					
V _{RRM}	Repetitive peak reverse voltage		180	200-1500	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	180	30	mA
CONDUCTING PARAMETERS					
I _{F(AV)}	Average on-state current	180 sine, 50Hz, T _C = 130°C		200	A
I _{RMS}	RMS on-state current			300	A
I _{FSM}	Non repetitive peak surge on-state current	Sine wave, 10mS without reverse voltage	180	3600	A
I ² t	Permissible surge energy			64.8	kA ² S
V _{FM}	Peak on-state voltage drop	On-state current = 470A	180	1.25	V
V ₀	Typical forward conduction Threshold voltage		180	0.75	V
r ₀	Typical forward slope resistance		180	0.90	mΩ
THERMAL & MECHANICAL PARAMETERS					
R _{TH(J-C)}	Thermal impedance, 180° conduction, Sine	Junction to case		0.24	°C/W
R _{TH(C-HK)}	Thermal impedance	Case to heatsink		0.05	°C/W
T _J	Maximum Permissible junction temperature			180	°C
T _{STG}	Storage temperature range			-40 – 180	°C
F	Mounting Torque			13.5	NM
W	Weight			180	gms



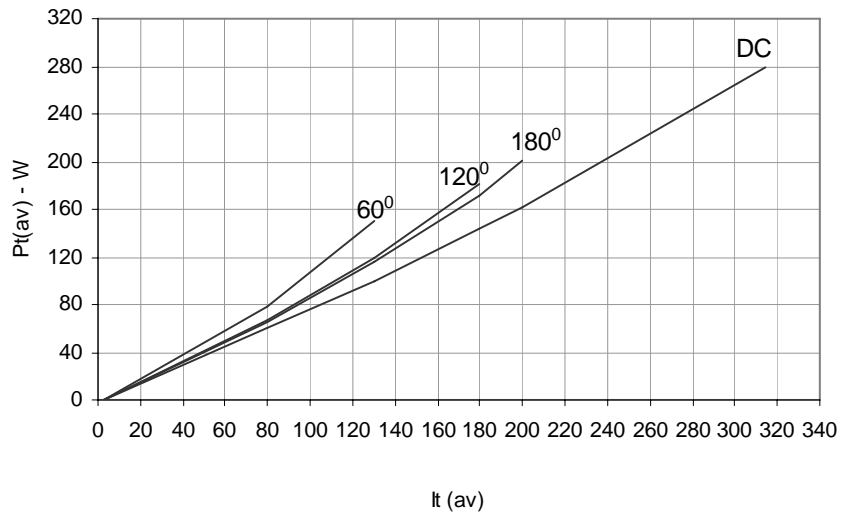
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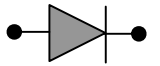
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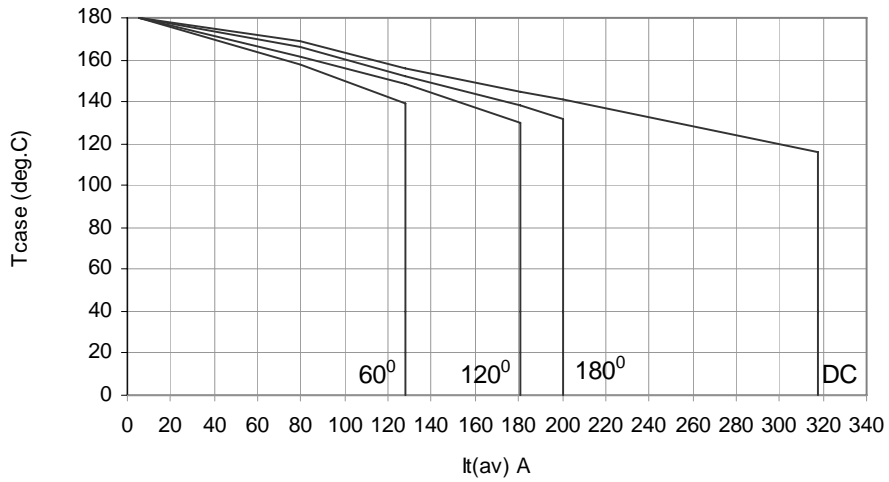
All dimensions in mm

On State Power Loss

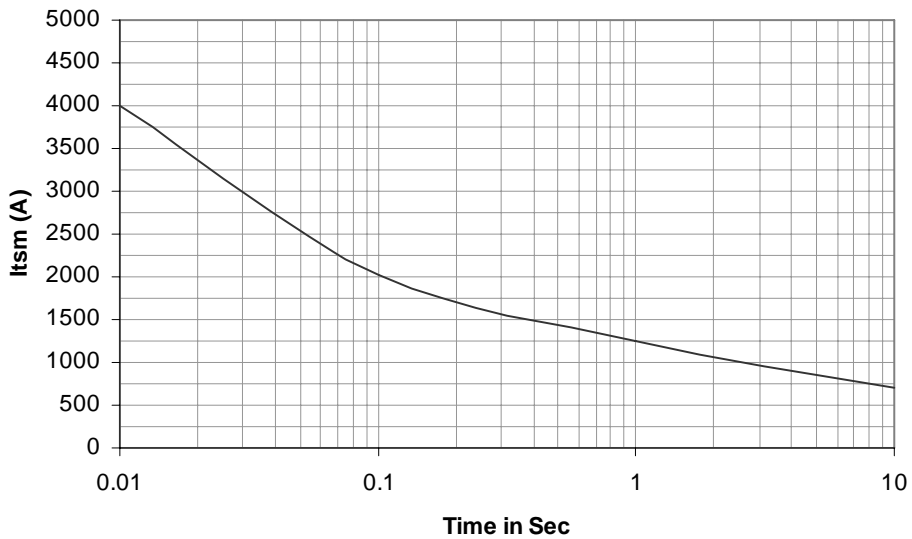


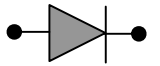


Maximum Permissible Case Temp

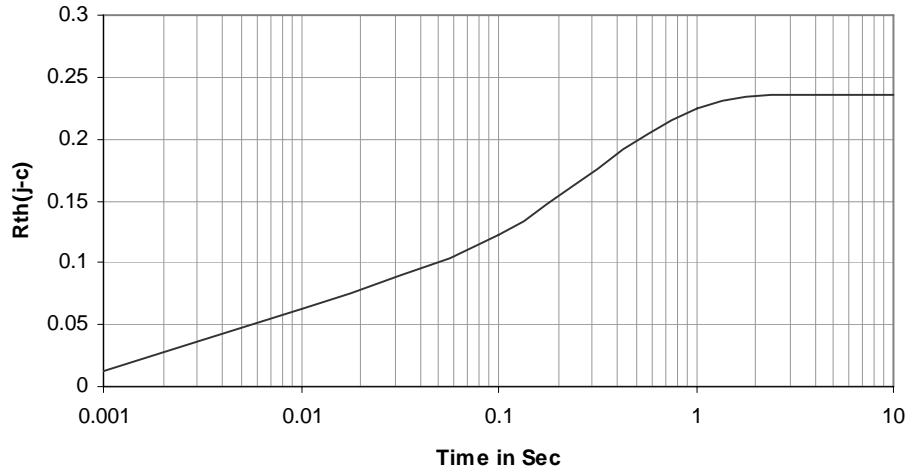


Max non repetitive Surge Current

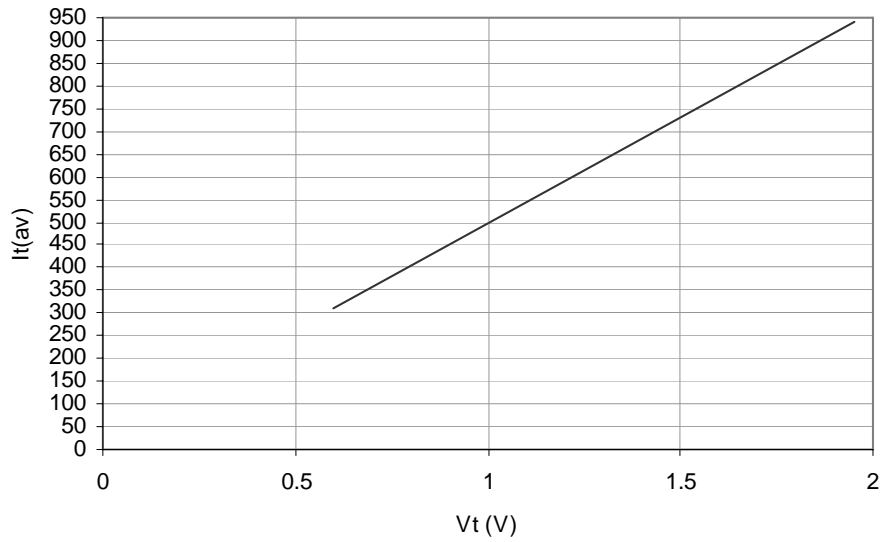




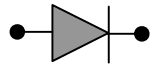
Transient Thermal Impedance Junction to Case



On State Characteristics



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Ordering Information: -

S	XX	HNS / HRS	201
Hirect make Rectifier Diode	$V_{RRM} = XX * 100$ e.g. 12 * 100 = 1200V	HNS - Normal Polarity HRS - Reverse Polarity	$I_{F(AV)} = 200A$

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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