

Rectifier Diode SXXHBN/HBR150

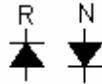
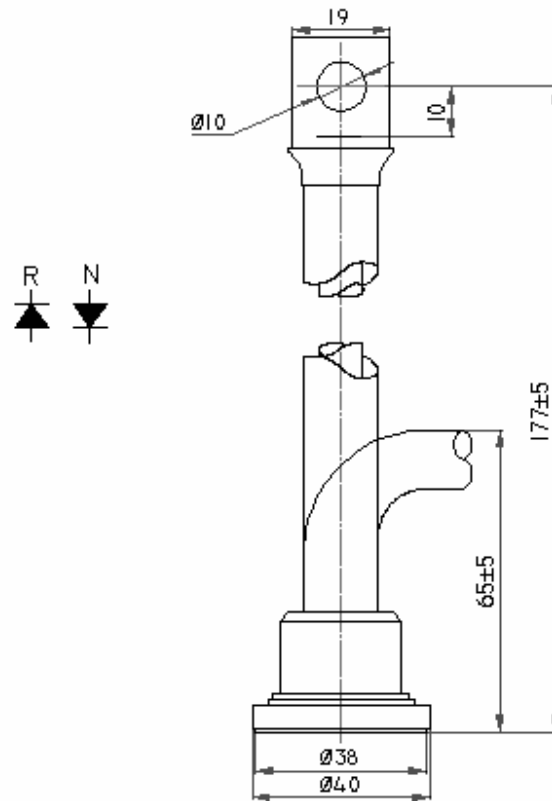
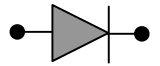


Symbol	Characteristics	Conditions	T _J (°C)	Value	Unit
BLOCKING PARAMETERS					
V _{RRM}	Repetitive peak reverse voltage		180	200-1500	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	180	20	mA
CONDUCTING PARAMETERS					
I _{F(AV)}	Average on-state current	180 sine, 50Hz, T _C = 130°C		150	A
I _{RMS}	RMS on-state current			200	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			64.80	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			160	gms



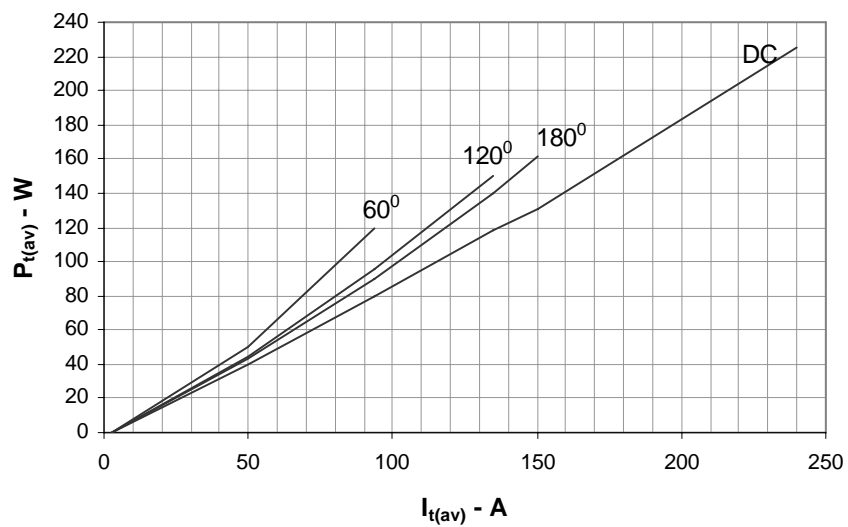
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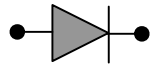
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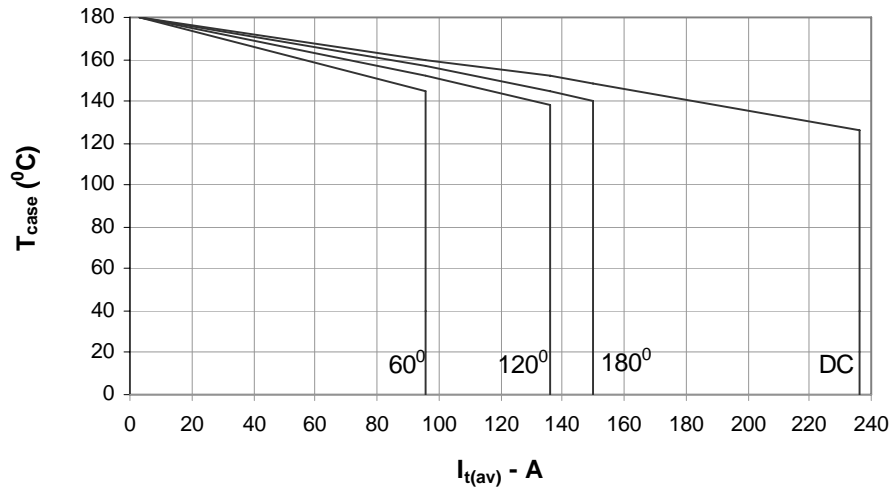
All dimensions in mm

On State Power Loss

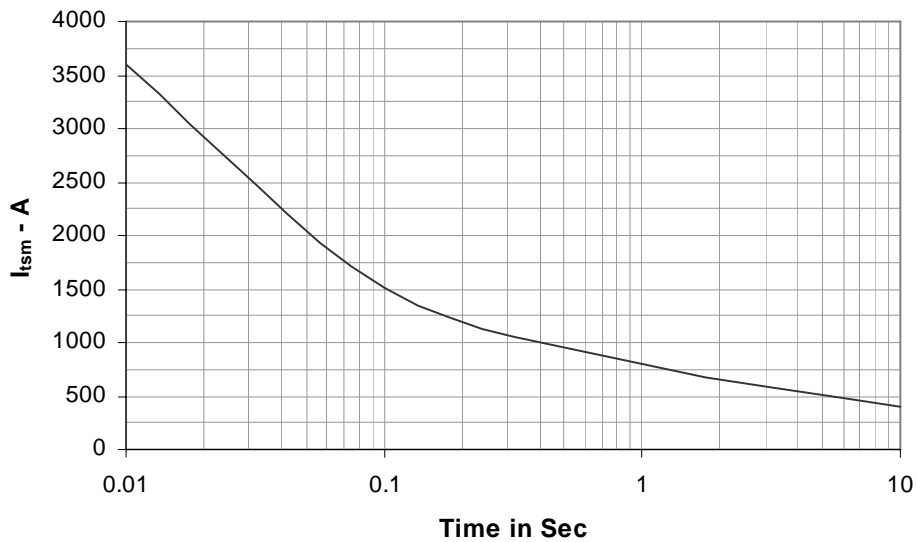


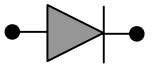


Maximum Permissible Case Temp

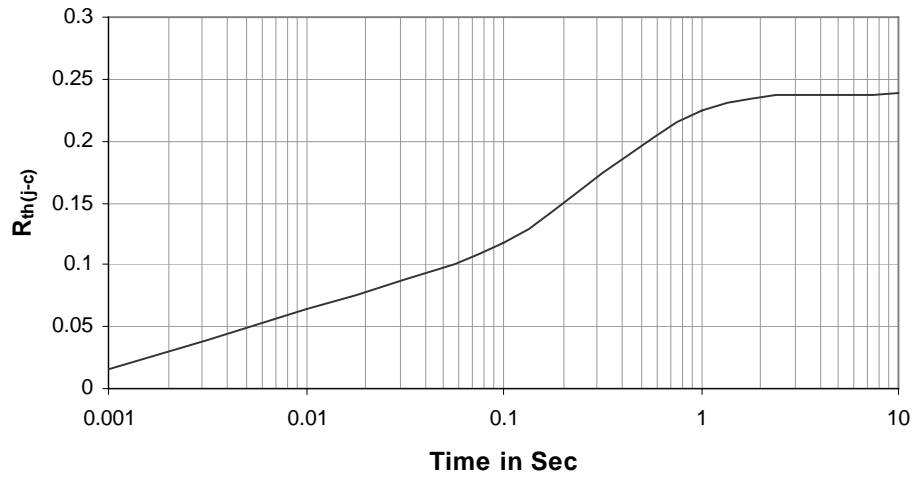


Max non repetitive Surge Current

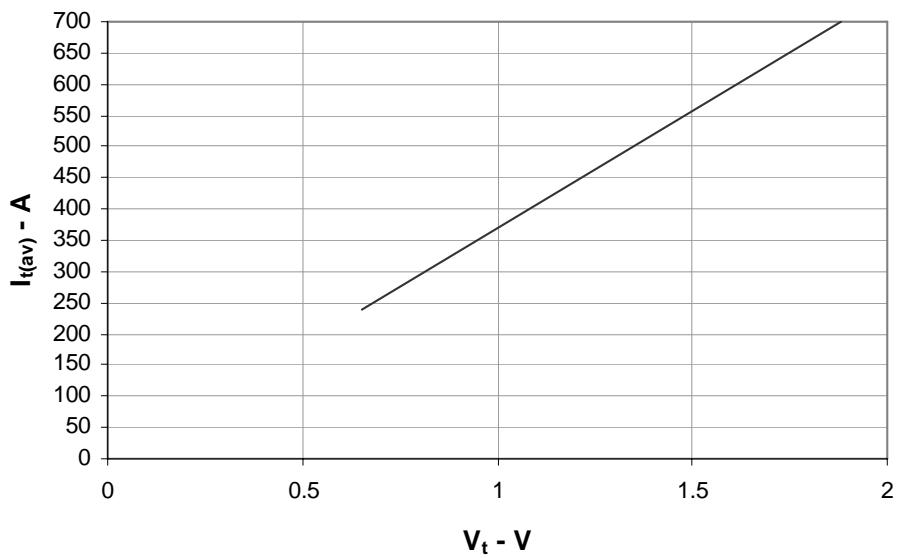




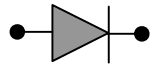
Transient Thermal Impedance Junction to Case



On State Characteristics



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Ordering Information: -

S	XX	HBN / HBR	150
Hirect make Rectifier Diode	$V_{RRM} = XX * 100$ e.g.12 * 100 =1200V	HBN – Normal Polarity HBR – Reverse Polarity	$I_{F(AV)} = 150A$

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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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June-2008



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