

Rectifier Diode SXXHN/HR6

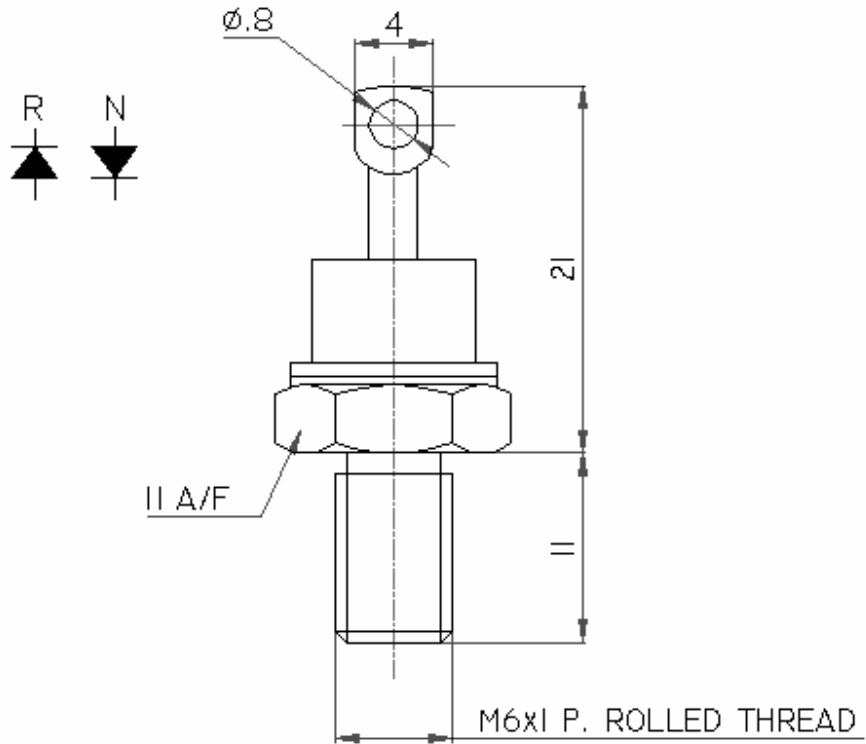
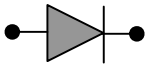


Symbol	Characteristics	Conditions	T _J (°C)	Value	Unit
BLOCKING PARAMETERS					
V _{RRM}	Repetitive peak reverse voltage		180	200-1500	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	180	2	mA
CONDUCTING PARAMETERS					
I _{F(AV)}	Average on-state current	180 sine, 50Hz, T _C = 130°C		6	A
I _{RMS}	RMS on-state current			9.5	A
I _{FSM}	Non repetitive peak surge on-state current	Sine wave, 10mS without reverse voltage	180	200	A
I ² t	Permissible surge energy			200	A ² S
V _{FM}	Peak on-state voltage drop	On-state current = 20A	180	1.30	V
V ₀	Typical forward conduction Threshold voltage		180	0.70	V
r ₀	Typical forward slope resistance		180	16.50	mΩ
THERMAL & MECHANICAL PARAMETERS					
R _{TH(J-C)}	Thermal impedance, 180° conduction, Sine	Junction to case		4.50	°C/W
R _{TH(C-HK)}	Thermal impedance	Case to heatsink		0.60	°C/W
T _J	Maximum Permissible junction temperature			180	°C
T _{STG}	Storage temperature range			-40 – 180	°C
F	Mounting Torque			2	NM
W	Weight			10	gms



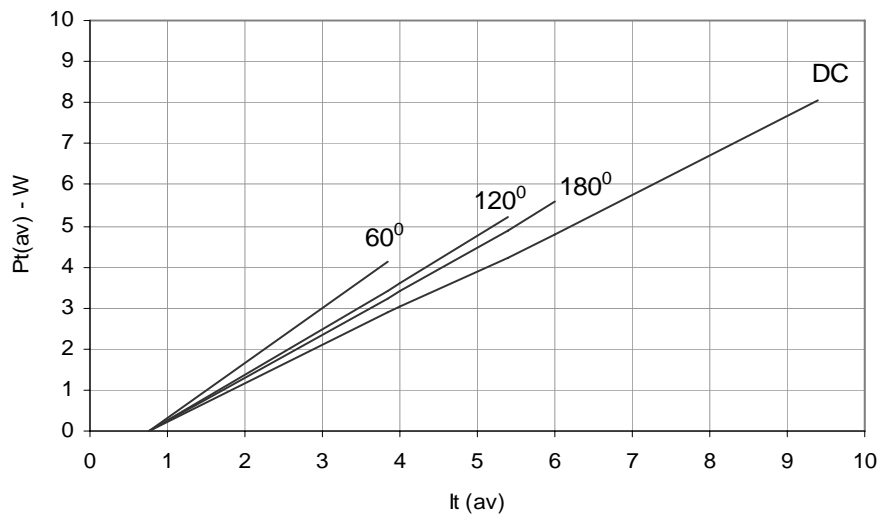
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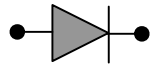
ALL DIMENSIONS IN MM

On State Power Loss

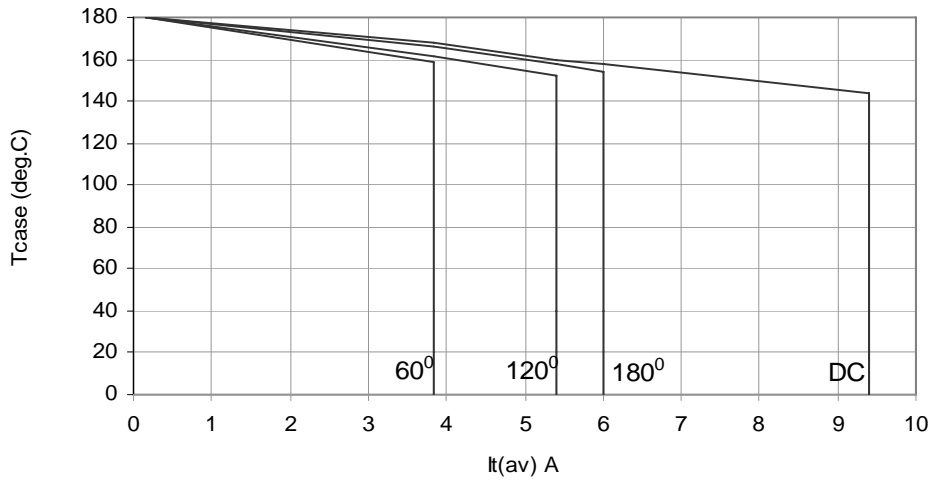


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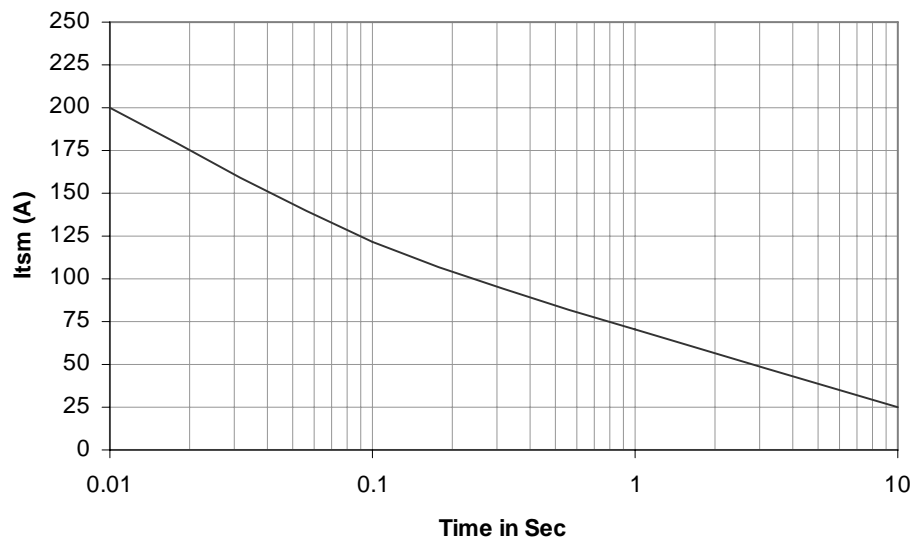
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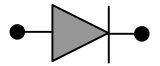


Maximum Permissible Case Temp

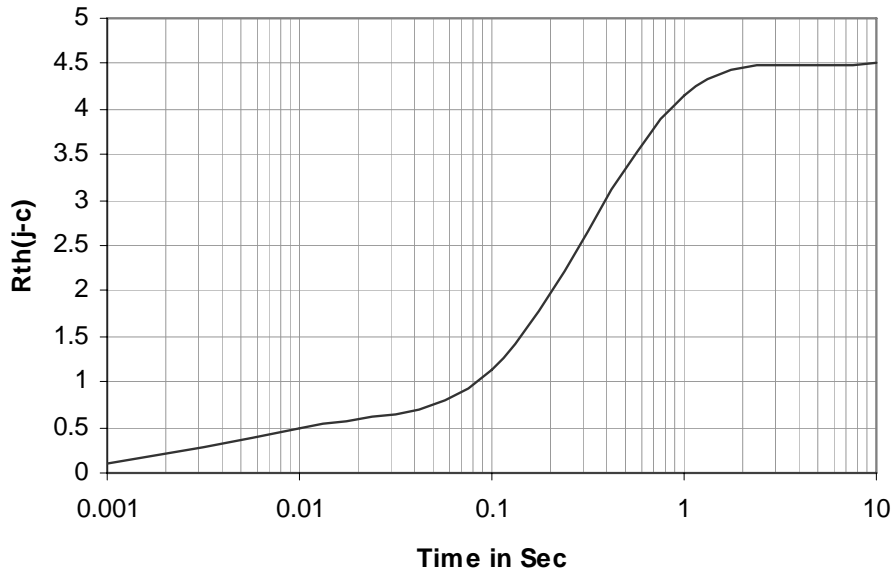


Max non repetitive Surge Current

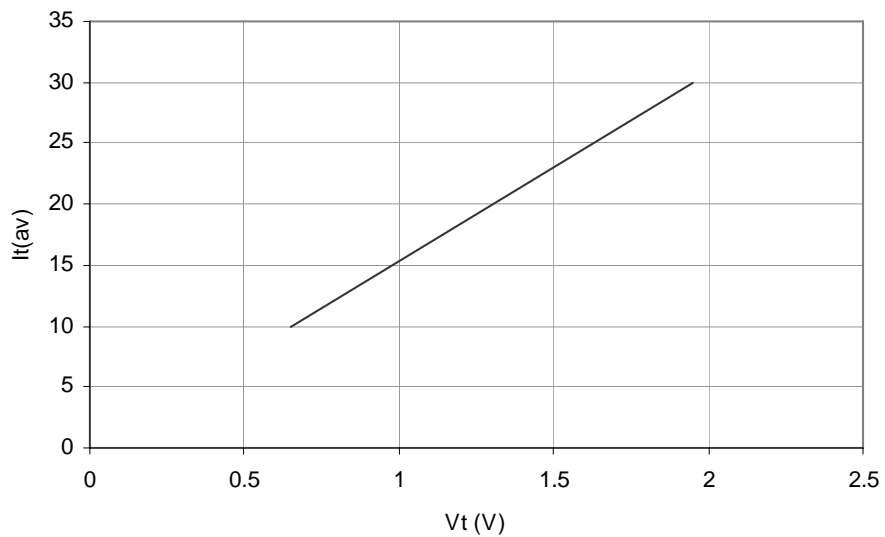




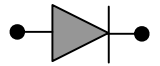
Transient Thermal Impedance Junction to Case



On State Characteristics



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Ordering Information: -

S	XX	HN / HR	6
Hirect make Rectifier Diode	$V_{RRM} = XX * 100$ e.g.12 * 100 =1200V	HN – Normal Polarity HR – Reverse Polarity	$I_{F(AV)} = 6A$

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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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