

Capsule Type Rectifier Diode SHXXC2230

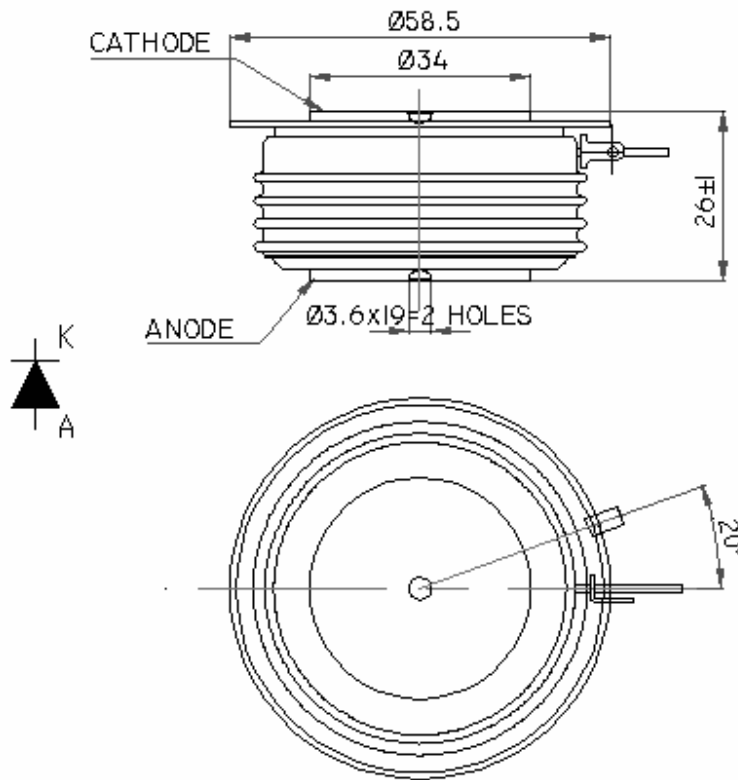
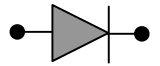


Symbol	Characteristics	Conditions	T _J (°C)	Value	Unit
BLOCKING PARAMETERS					
V _{RRM}	Repetitive peak reverse voltage		180	200-1800	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	180	50	mA
CONDUCTING PARAMETERS					
I _{F(AV)}	Average on-state current	180 sine, 50Hz, T _C = 109°C		2230	A
I _{RMS}	RMS on-state current			3500	A
I _{FSM}	Non repetitive peak surge on-state current	Sine wave, 10mS without reverse voltage	180	25000	A
I ² t	Permissible surge energy			3125	kA ² S
V _{FM}	Peak on-state voltage drop	On-state current = 3000A	180	1.10	V
V ₀	Typical forward conduction Threshold voltage		180	0.70	V
r ₀	Typical forward slope resistance		180	0.10	mΩ
THERMAL & MECHANICAL PARAMETERS					
R _{TH(J-C)}	Thermal impedance, 180° conduction, Sine	Junction to case		0.0255	°C/W
R _{TH(C-HK)}	Thermal impedance	Case to heatsink		0.005	°C/W
T _J	Maximum Permissible junction temperature			180	°C
T _{STG}	Storage temperature range			-40 – 180	°C
F	Mounting Torque			15	KN
W	Weight			340	gms



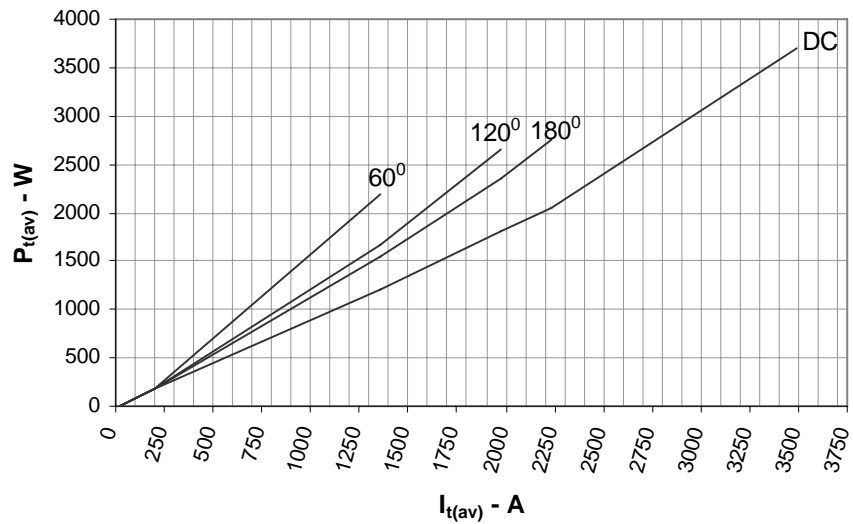
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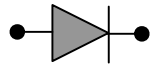


All dimensions in mm

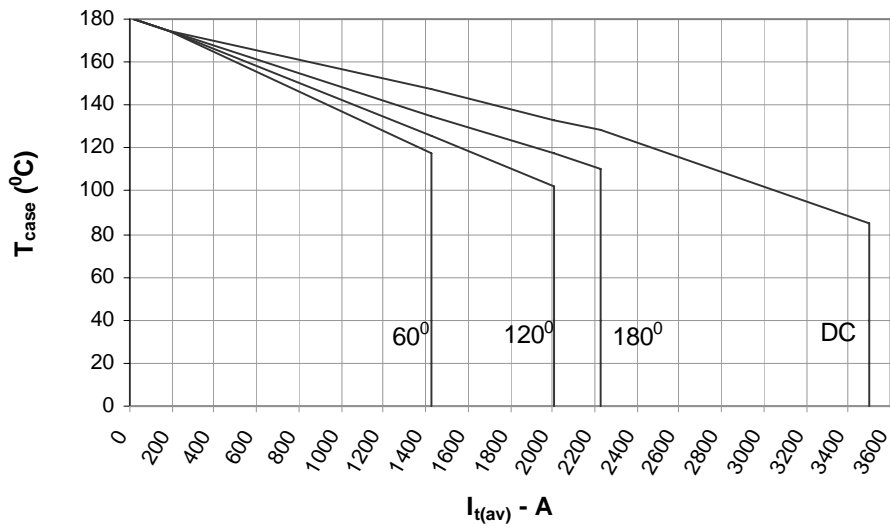
On State Power Loss



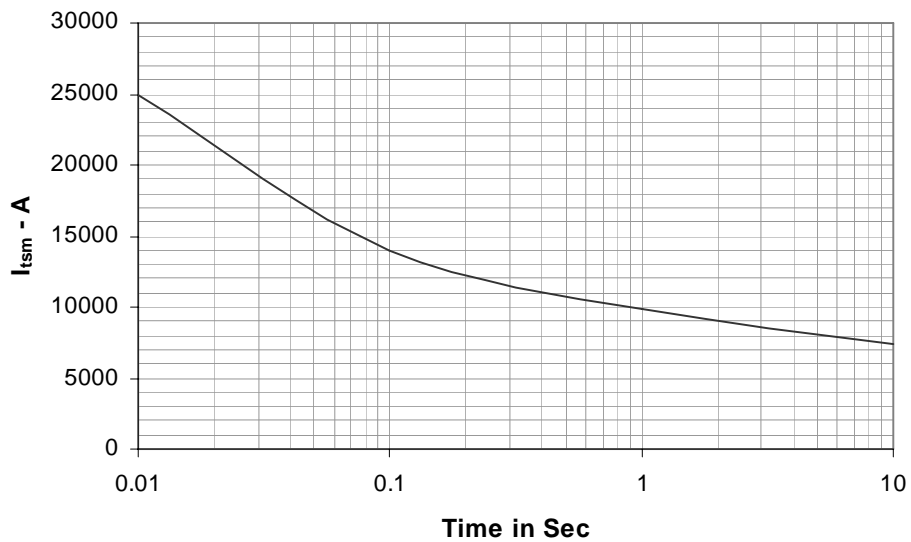
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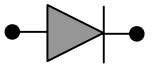


Maximum Permissible Case Temp

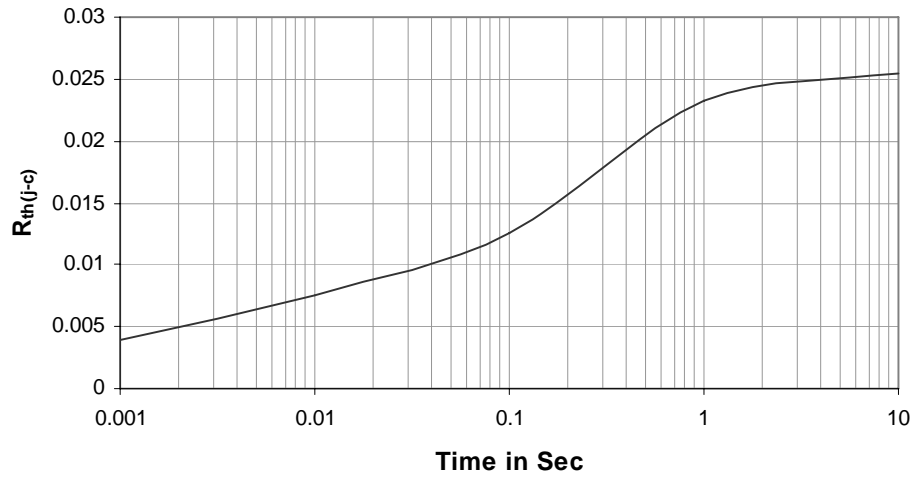


Max non repetitive Surge Current

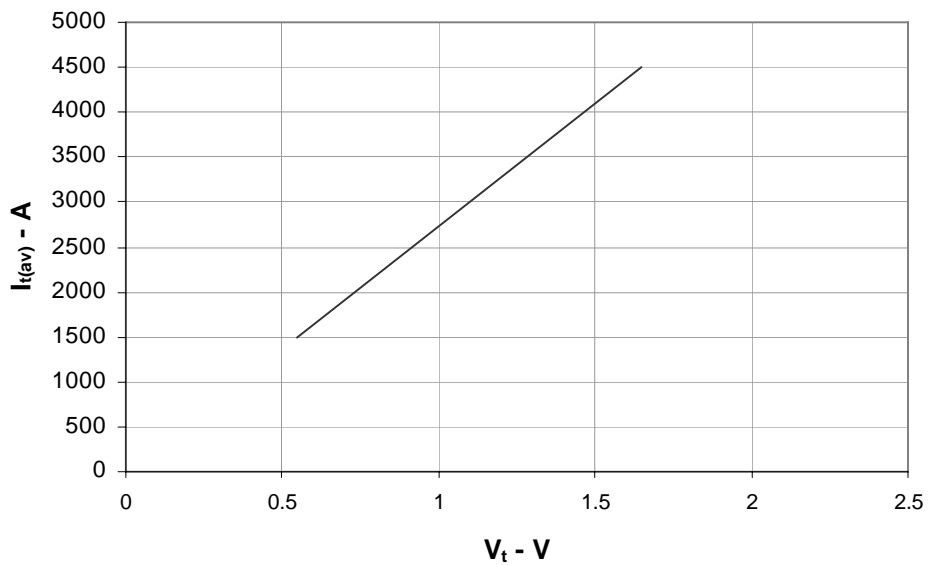




Transient Thermal Impedance Junction to Case



On State Characteristics



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Ordering Information: -

SH	XX	C	2230
Hirect make Capsule Diode	$V_{RRM} = XX * 100$ e.g. 12 * 100 = 1200V	Capsule Diode	$I_{F(AV)} = 2230A$

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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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