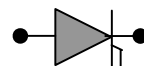


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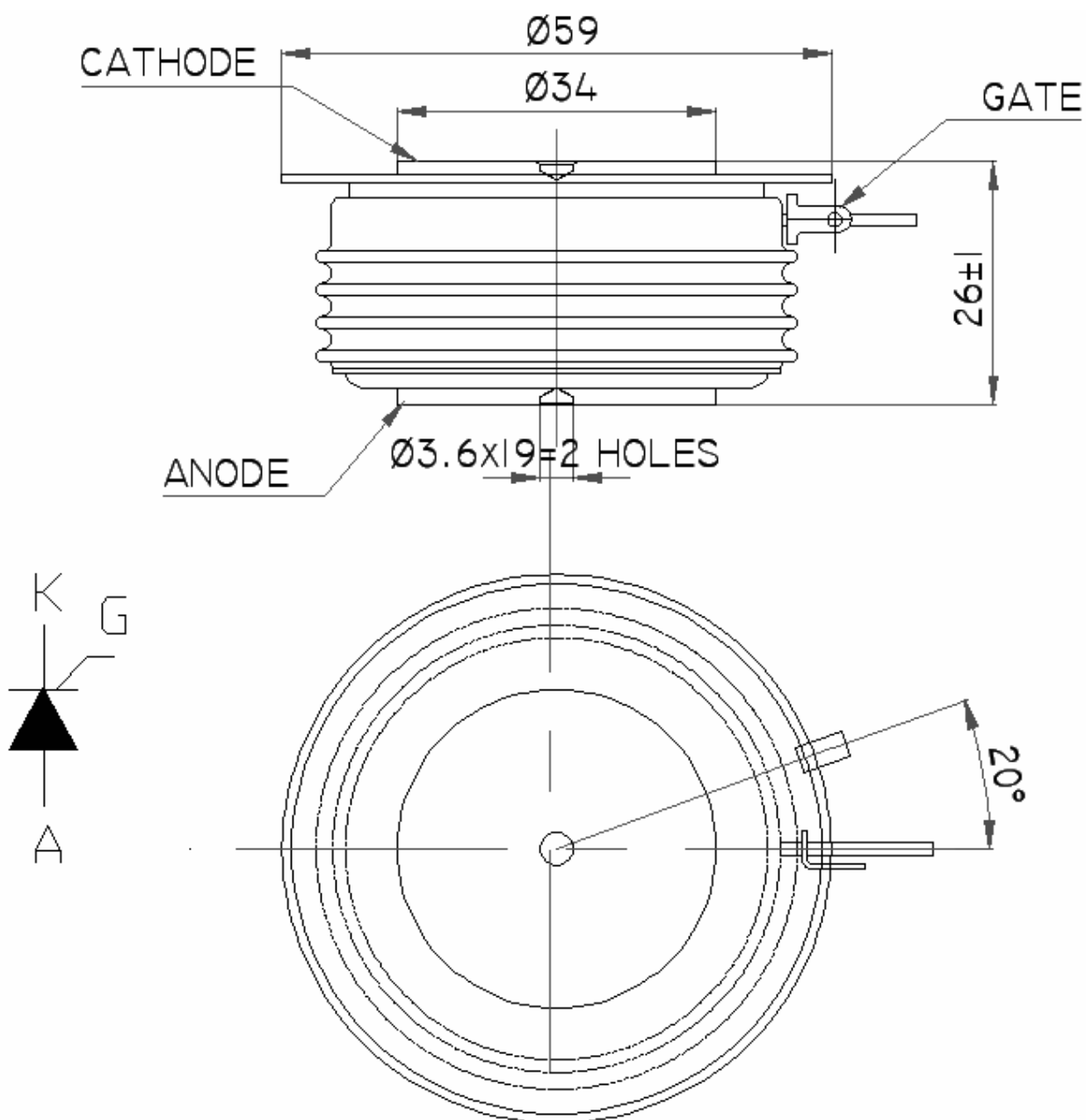
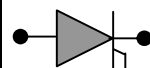
Symbol	Characteristics	Conditions	T_J ($^{\circ}\text{C}$)	Value	Unit
BLOCKING PARAMETERS					
V_{RRM}	Repetitive peak reverse voltage		125	200-1800	V
V_{DRM}	Repetitive peak off-state voltage		125	200-1800	V
I_{RRM}	Repetitive peak reverse current	$V = V_{RRM}$	125	80	mA
I_{DRM}	Repetitive peak off-state current	$V = V_{RRM}$	125	80	mA
CONDUCTING PARAMETERS					
$I_{F(AV)}$	Average on-state current	180 sine, 50Hz, $T_C = 64^{\circ}\text{C}$		955	A
I_{RMS}	RMS on-state current			1500	A
I_{TSM}	Surge on-state current	Sine wave, 10mS without reverse voltage	125	12.50	kA
I^2t	I^2t			781	kA^2S
V_T	Peak on-state voltage drop	On-state current = 3kA	125	2	V
V_0	Threshold voltage		125	0.85	V
R_0	On-state slope resistance		125	0.35	m Ω
TRIGGERING PARAMETERS					
I_{GT}	Gate trigger current	$V_D = 5\text{V}$	25	250	mA
V_{GT}	Gate trigger voltage		25	2.00	V
I_L	Latching Current	$V_D = 5\text{V}$	25	1000	mA
P_{G-PEAK}	Maximum Peak Gate Power	Pulse width 100 μSec		150	W
di/dt	Repetitive rate of rise of current			120	A/ μSec
V_{FGM}	Maximum forward gate voltage			12	V
I_{FGM}	Maximum forward gate current			50	A
THERMAL & MECHANICAL PARAMETERS					
$R_{TH (J-C)}$	Thermal impedance, 180 conduction, Sine	Junction to case		0.038	$^{\circ}\text{C/W}$
$R_{TH (C-HK)}$	Thermal impedance	Case to heatsink		0.005	$^{\circ}\text{C/W}$
T_J	Maximum Permissible junction temperature			125	$^{\circ}\text{C}$
T_{STG}	Storage temperature range			-40 - 125	$^{\circ}\text{C}$
F	Mounting Torque			15	KN
W	Weight			280	gms



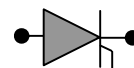
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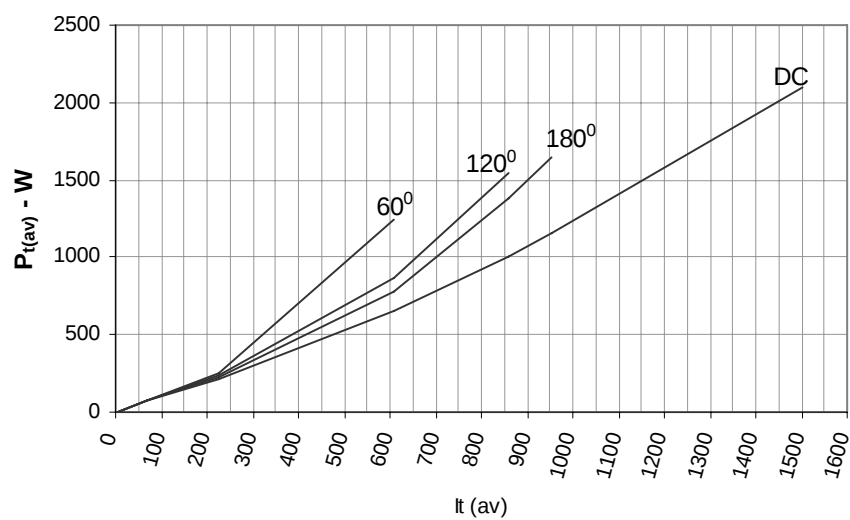
PHASE CONTROL THYRISTOR H955CHXX



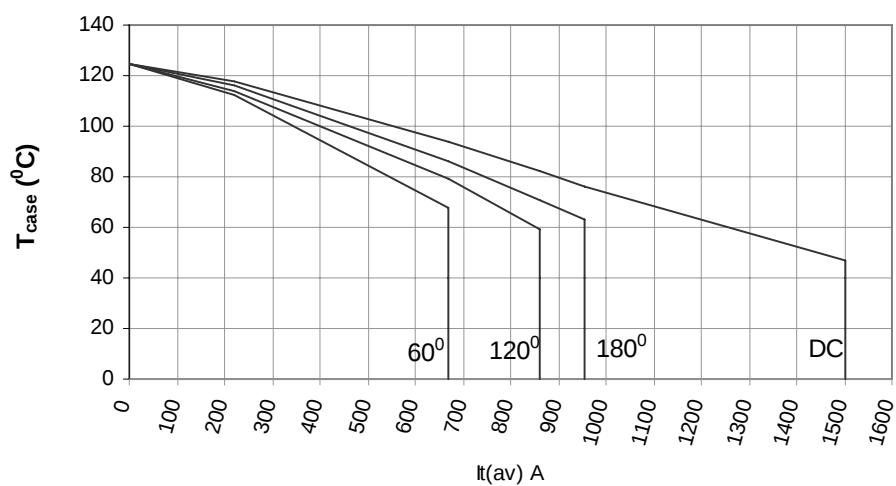
All dimensions in mm

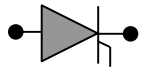


On State Power Loss

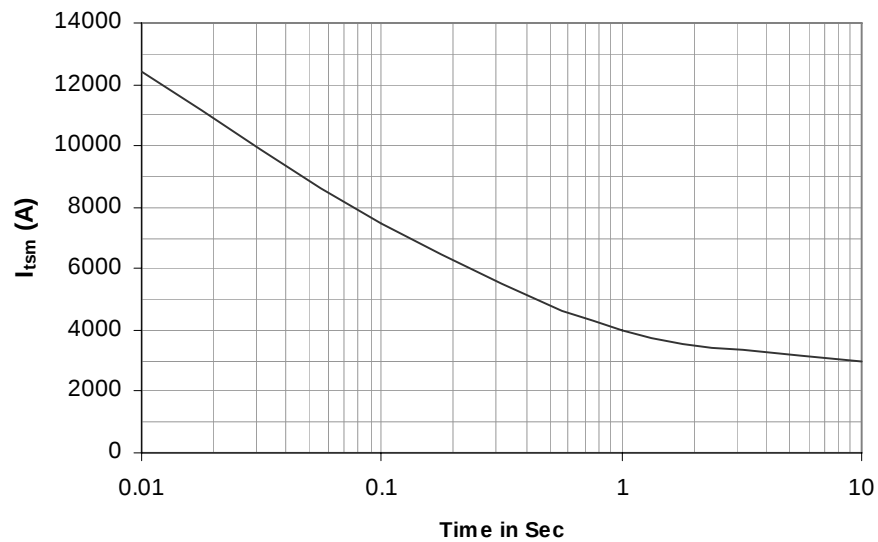


Maximum Permissible Case Temp

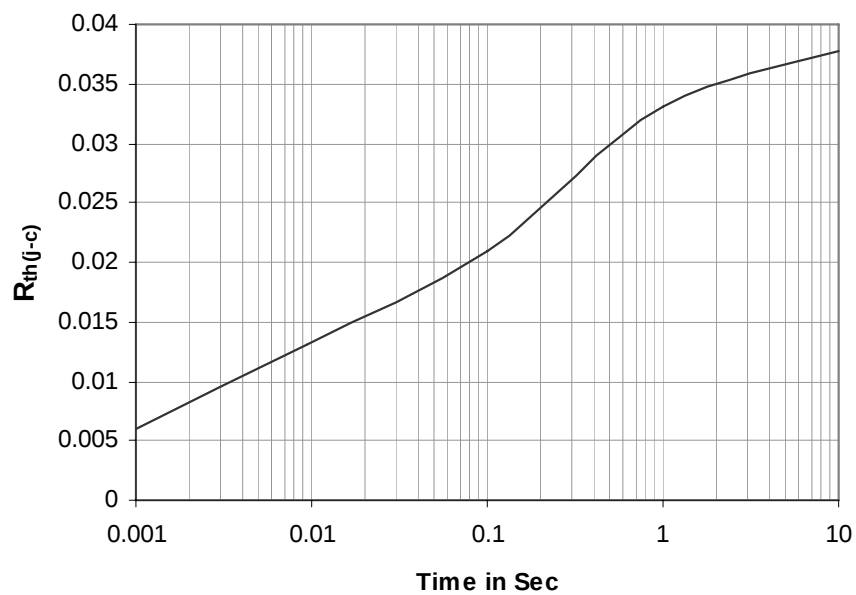


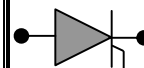


Max non repetitive Surge Current

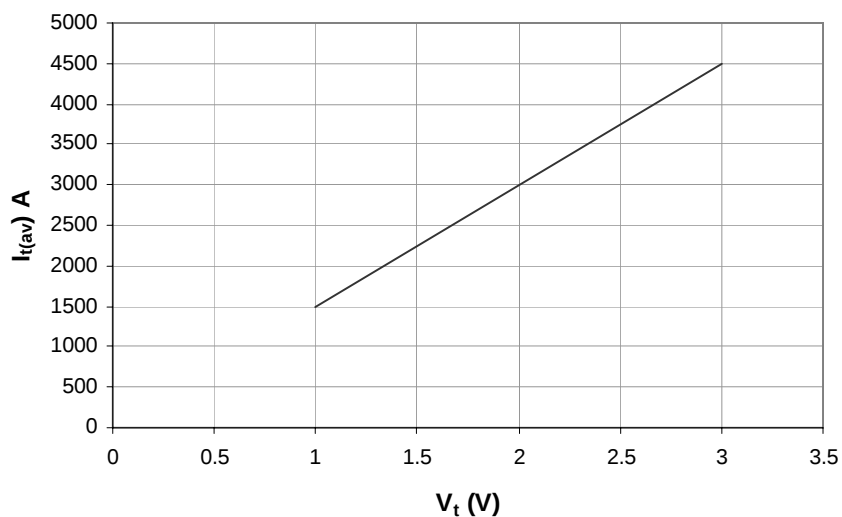


Transient Thermal Impedance Junction to Case

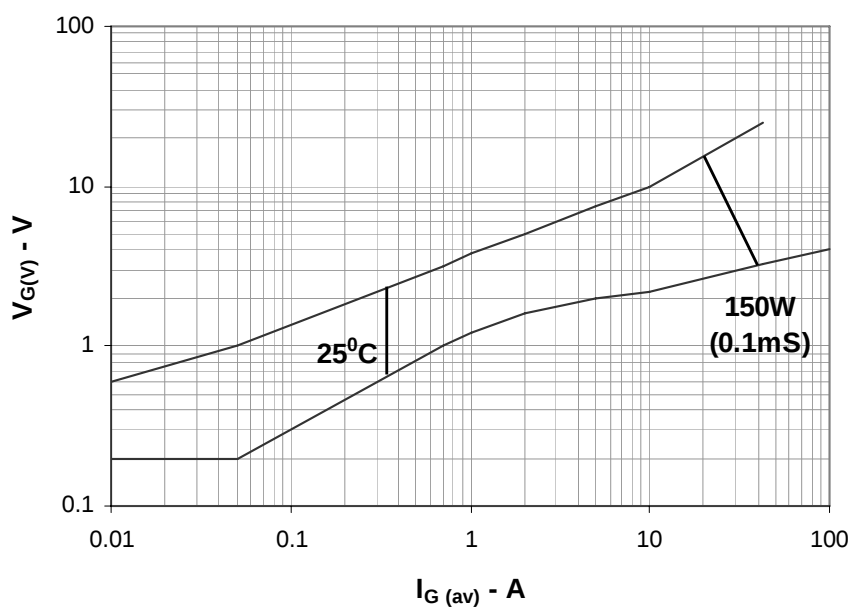




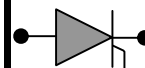
On State Characteristics



Gate Trigger Characteristics



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Ordering Information: -

H	955	CH	XX
Hirect make Thyristor	$I_{F(AV)} = 955A$	Capsule Thyristor	$V_{RRM} = XX * 100$ e.g. 12 * 100 = 1200V

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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