

PHASE CONTROL THYRISTOR H955CHXX



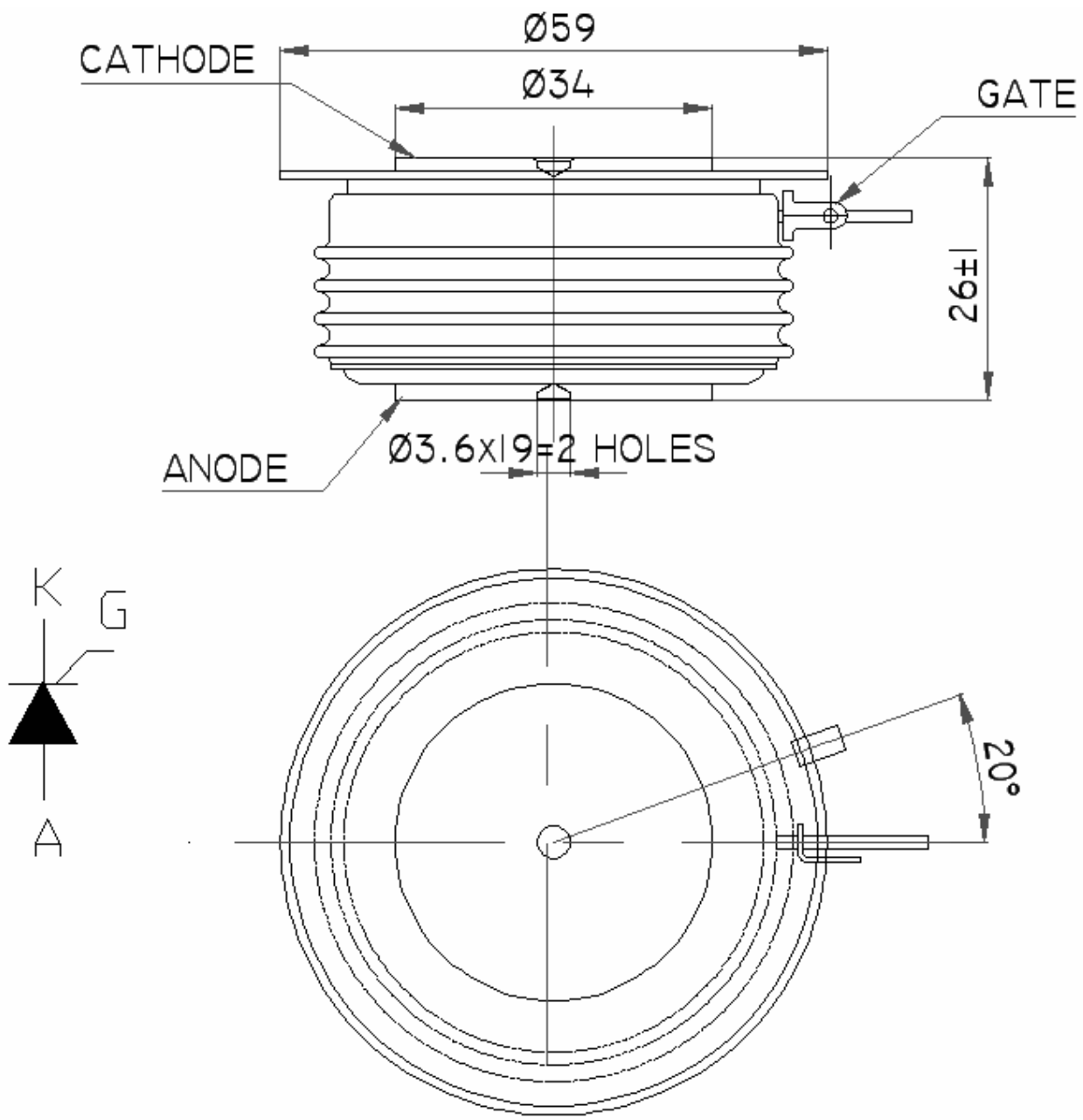
Symbol	Characteristics	Conditions	T _J (°C)	Value	Unit
BLOCKING PARAMETERS					
V _{RRM}	Repetitive peak reverse voltage		125	200-1800	V
V _{DRM}	Repetitive peak off-stage voltage		125	200-1800	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	125	80	mA
I _{DRM}	Repetitive peak off-state current	V = V _{RRM}	125	80	mA
CONDUCTING PARAMETERS					
I _{F(AV)}	Average on-state current	180 sine, 50Hz, T _C = 64°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 ² t	I ² t			781	kA ² S
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	mΩ
TRIGGERING PARAMETERS					
I _{GT}	Gate trigger current	V _D = 5V	25	250	mA
V _{GT}	Gate trigger voltage		25	2.00	V
I _L	Latching Current	V _D = 5V	25	1000	mA
P _{G-PEAK}	Maximum Peak Gate Power	Pulse width 100μSec		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	°C/W
R _{TH(C-HK)}	Thermal impedance	Case to heatsink		0.005	°C/W
T _J	Maximum Permissible junction temperature			125	°C
T _{STG}	Storage temperature range			-40 - 125	°C
F	Mounting Torque			15	KN
W	Weight			280	gms



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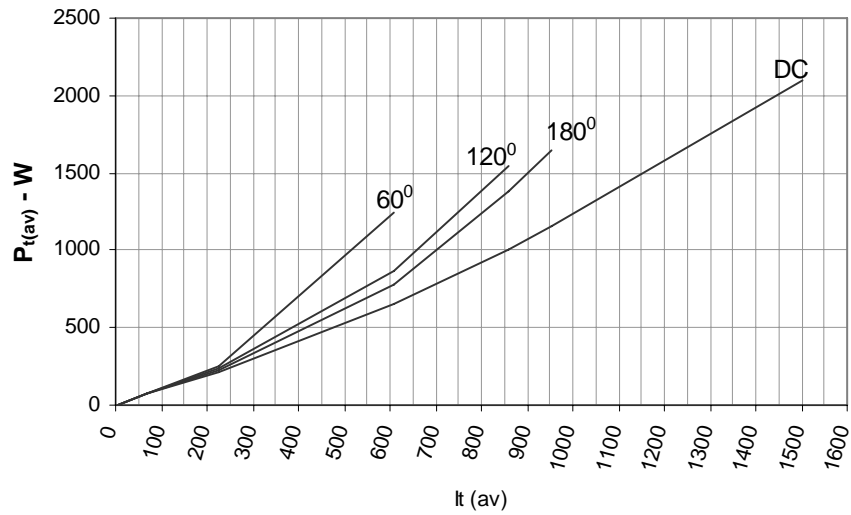


All dimensions in mm

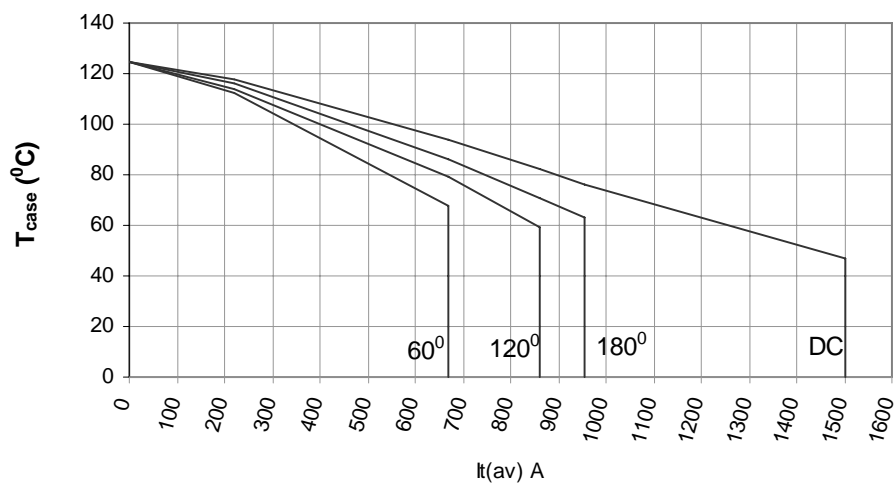


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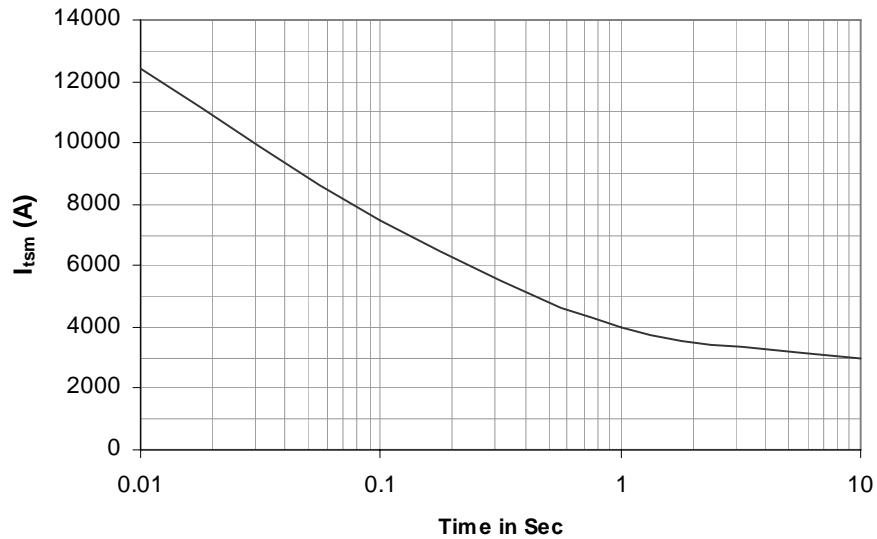
On State Power Loss



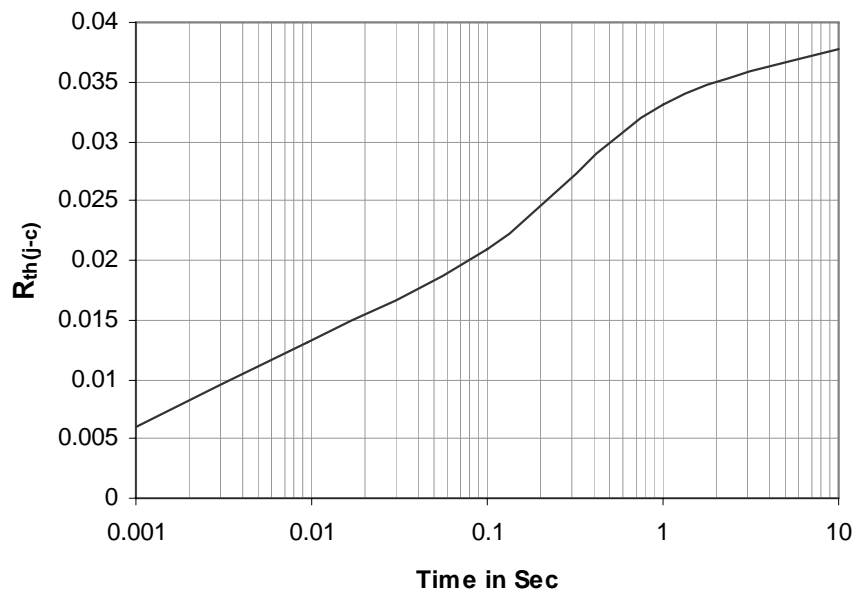
Maximum Permissible Case Temp



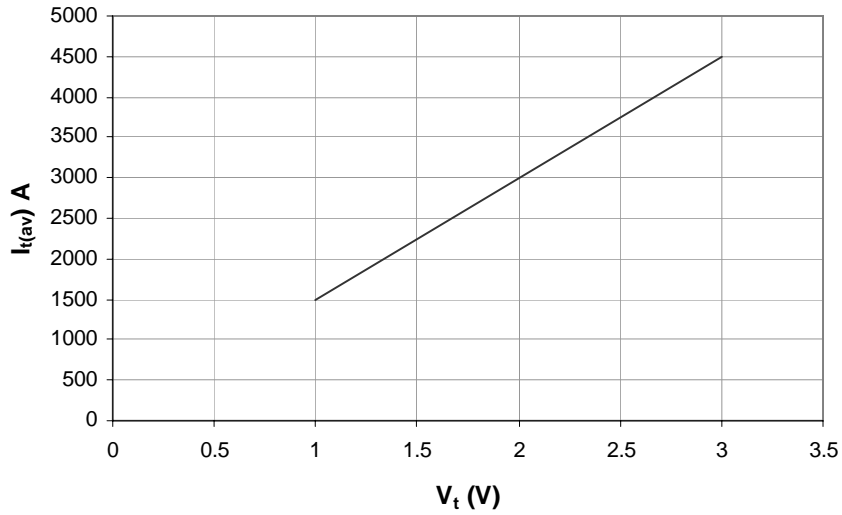
Max non repetitive Surge Current



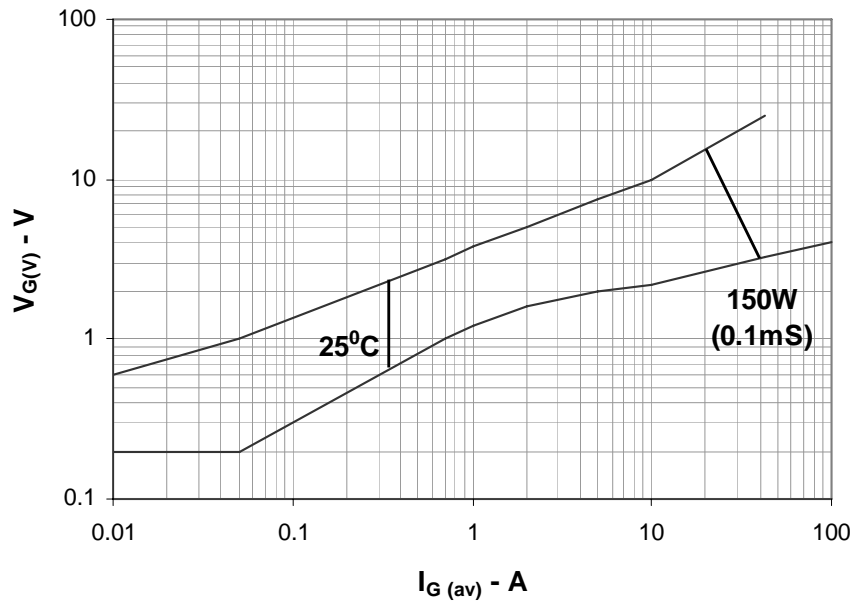
Transient Thermal Impedance Junction to Case



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

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