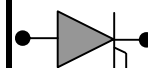


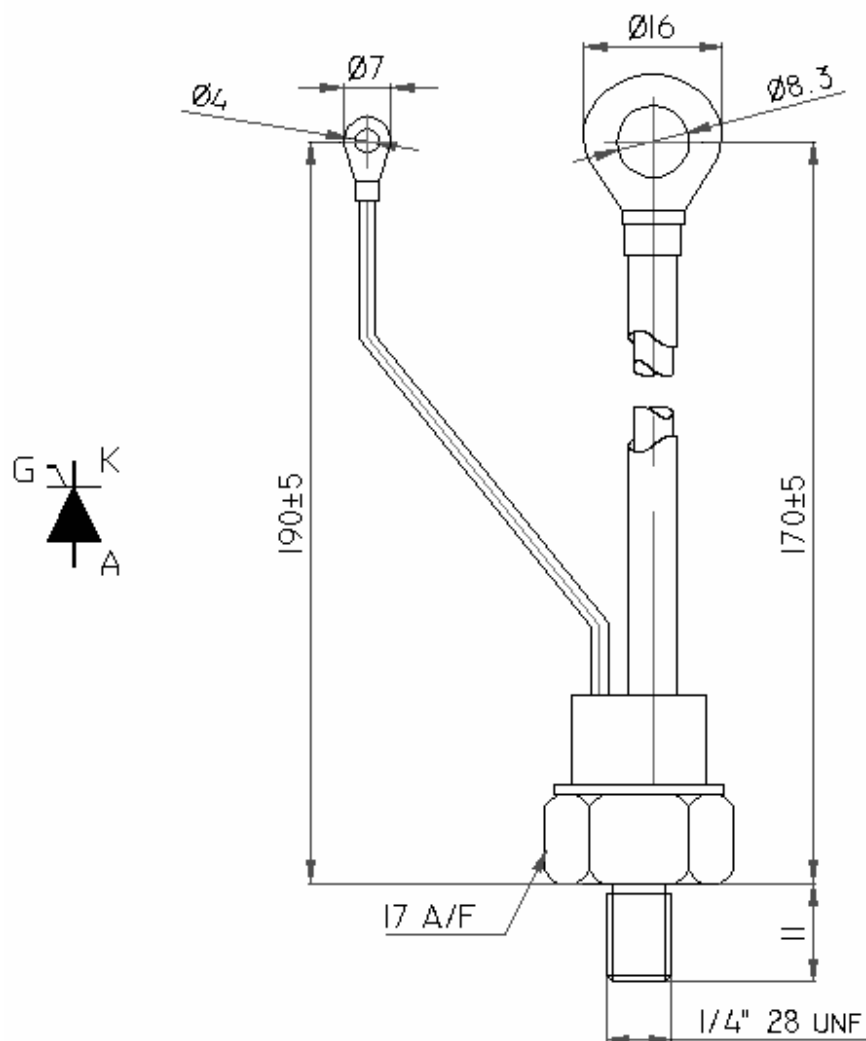
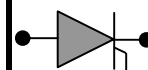
PHASE CONTROL THYRISTOR H65TBXX



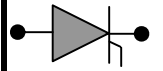
Symbol	Characteristics	Conditions	T_J ($^{\circ}\text{C}$)	Value	Unit
BLOCKING PARAMETERS					
V_{RRM}	Repetitive peak reverse voltage		125	200-1600	V
V_{DRM}	Repetitive peak off-stage voltage		125	200-1600	V
I_{RRM}	Repetitive peak reverse current	$V = V_{RRM}$	125	10	mA
I_{DRM}	Repetitive peak off-state current	$V = V_{RRM}$	125	10	mA
CONDUCTING PARAMETERS					
$I_{F(AV)}$	Average on-state current	180 sine, 50Hz, $T_C = 75^{\circ}\text{C}$		65	A
I_{RMS}	RMS on-state current			100	A
I_{TSM}	Surge on-state current	Sine wave, 10mS without reverse voltage	125	1000	A
I^2t	I^2t			5000	A^2S
V_T	Peak on-state voltage drop	On-state current = 200A	125	1.87	V
V_0	Threshold voltage		125	0.87	V
R_0	On-state slope resistance		125	4.10	m Ω
TRIGGERING PARAMETERS					
I_{GT}	Gate trigger current	$V_D = 5V$	25	150	mA
V_{GT}	Gate trigger voltage		25	2.50	V
I_L	Latching Current	$V_D = 5V$	25	400	mA
P_{G-PEAK}	Maximum Peak Gate Power	Pulse width 100 μSec		30	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			10	A
THERMAL & MECHANICAL PARAMETERS					
$R_{TH(J-C)}$	Thermal impedance, 180 conduction, Sine	Junction to case		0.50	$^{\circ}\text{C}/\text{W}$
$R_{TH(C-HK)}$	Thermal impedance	Case to heatsink		0.20	$^{\circ}\text{C}/\text{W}$
T_J	Maximum Permissible junction temperature			125	$^{\circ}\text{C}$
T_{STG}	Storage temperature range			-40 - 125	$^{\circ}\text{C}$
F	Mounting Torque			4	NM
W	Weight			45	gms



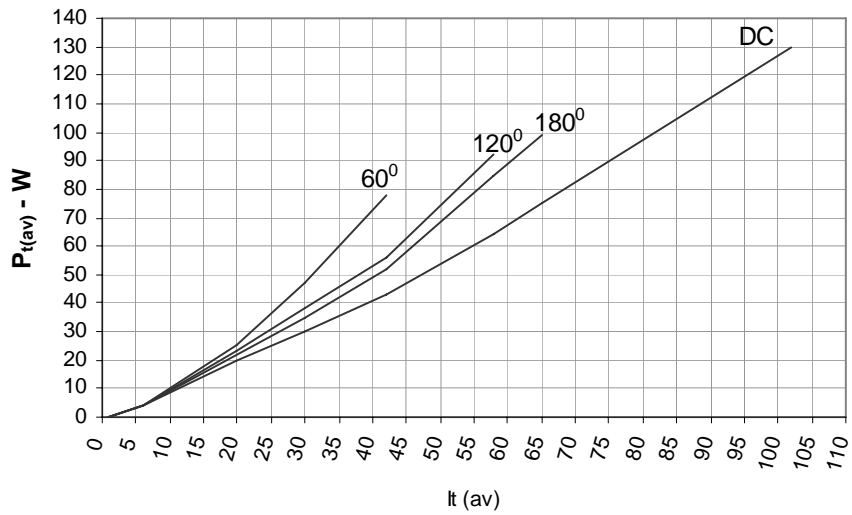
PHASE CONTROL THYRISTOR H65TBXX



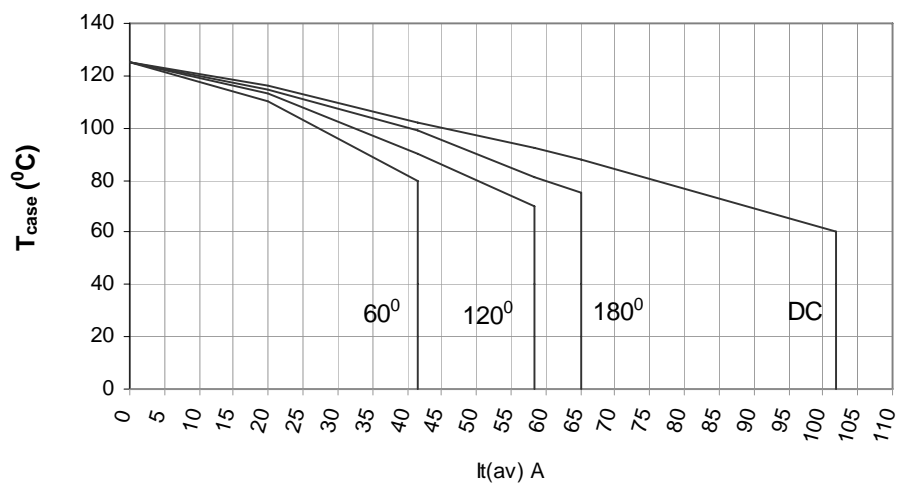
All dimensions in mm

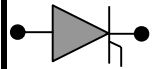


On State Power Loss

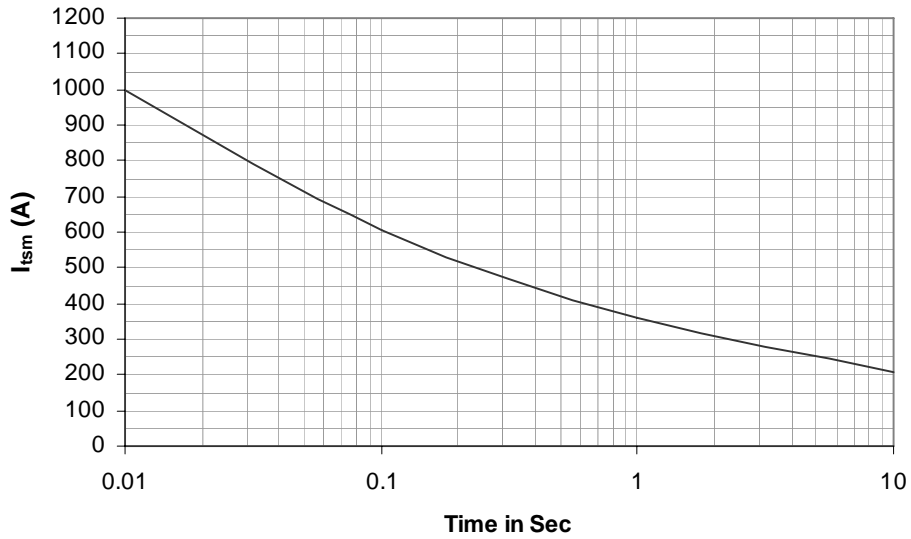


Maximum Permissible Case Temp

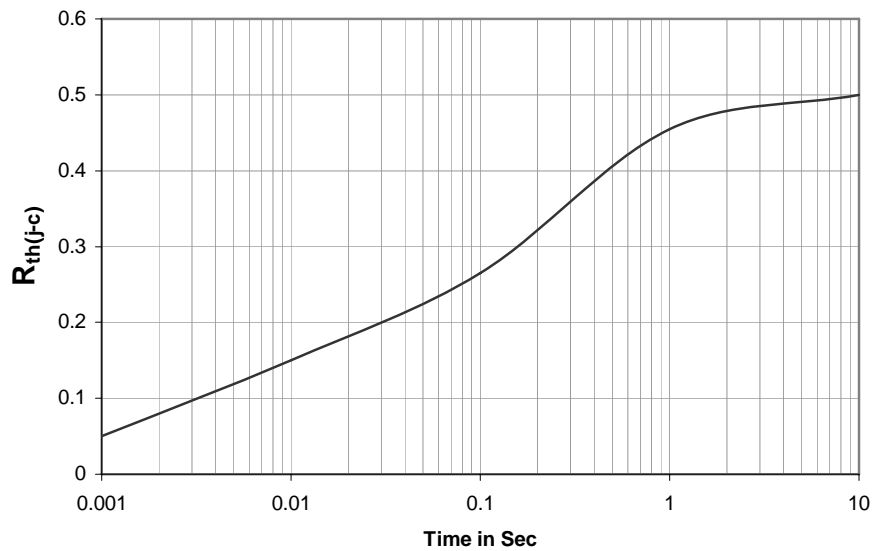


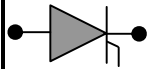


Max non repetitive Surge Current

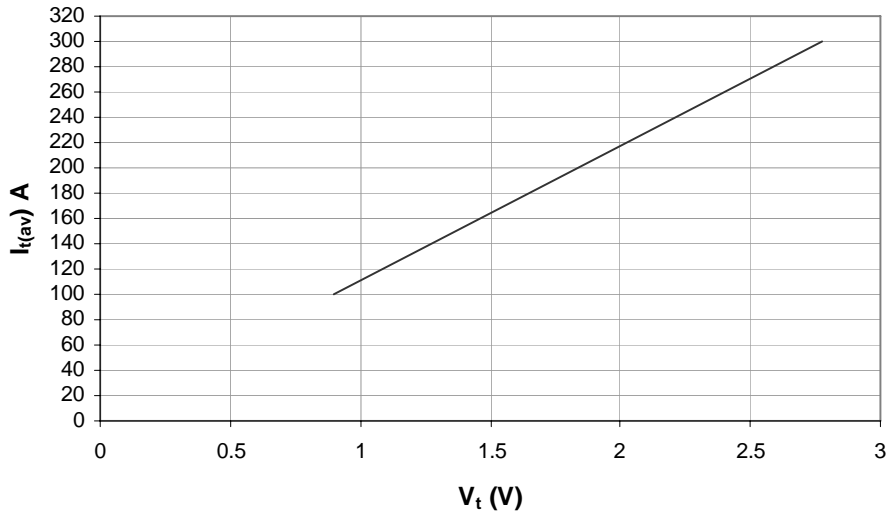


Transient Thermal Impedance Junction to Case

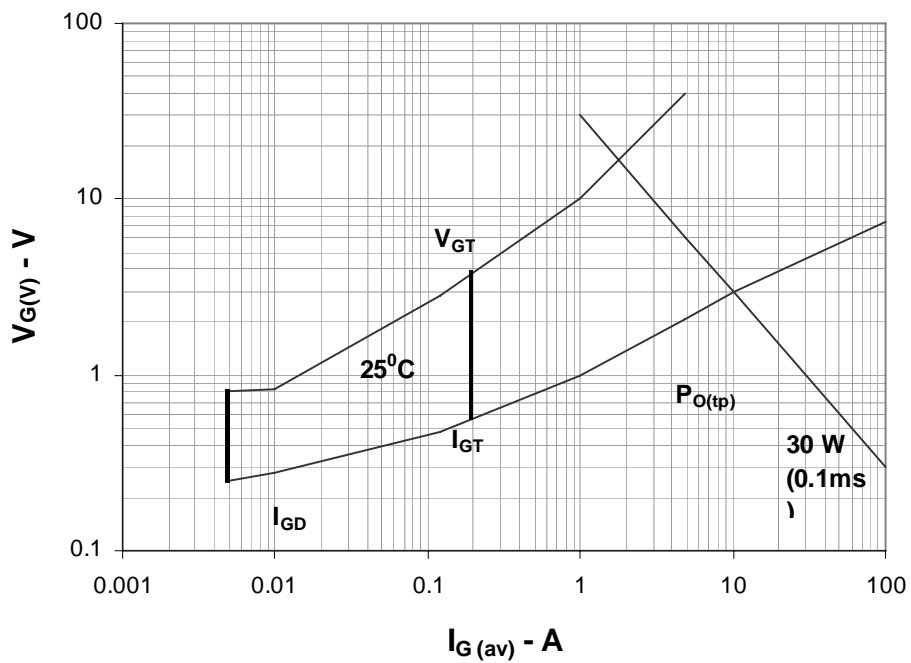




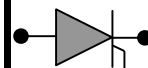
On State Characteristics



Gate Trigger Characteristics



PHASE CONTROL THYRISTOR H65TBXX



Ordering Information: -

H	65	TB	XX
Hirect make Thyristor	$I_{F(AV)} = 65A$	TB – with a Pigtail	$V_{RRM} = XX * 100$ e.g. 12 * 100 = 1200V

Hind Rectifiers Ltd reserves the right to change the specifications without notice.

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