

Capsule Type Rectifier Diode SHXXC540

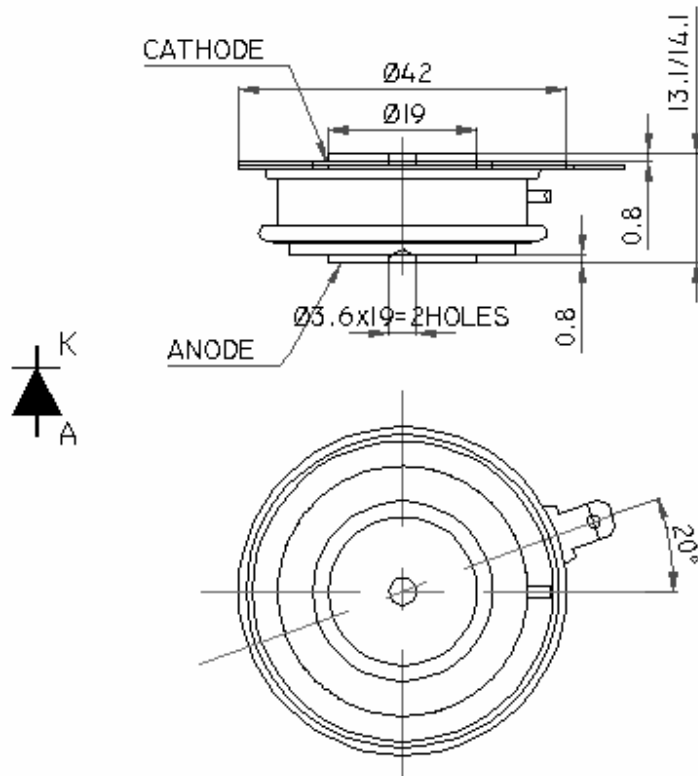
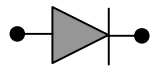


Symbol	Characteristics	Conditions	$T_J(^{\circ}\text{C})$	Value	Unit
BLOCKING PARAMETERS					
V_{RRM}	Repetitive peak reverse voltage		170	200-1800	V
I_{RRM}	Repetitive peak reverse current	$V = V_{RRM}$	170	50	mA
CONDUCTING PARAMETERS					
$I_{F(AV)}$	Average on-state current	180 sine, 50Hz, $T_C = 91^{\circ}\text{C}$		540	A
I_{RMS}	RMS on-state current			850	A
I_{FSM}	Non repetitive peak surge on-state current	Sine wave, 10mS without reverse voltage	170	6000	A
I^2t	Permissible surge energy			180	kA ² S
V_{FM}	Peak on-state voltage drop	On-state current = 1600A	170	1.85	V
V_0	Typical forward conduction Threshold voltage		170	0.75	V
r_0	Typical forward slope resistance		170	0.65	m Ω
THERMAL & MECHANICAL PARAMETERS					
$R_{TH(J-C)}$	Thermal impedance, 180 ^o conduction, Sine	Junction to case		0.090	^o C/W
$R_{TH(C-HK)}$	Thermal impedance	Case to heatsink		0.015	^o C/W
T_J	Maximum Permissible junction temperature			170	^o C
T_{STG}	Storage temperature range			-40 – 170	^o C
F	Mounting Torque			6.5	KN
W	Weight			70	gms



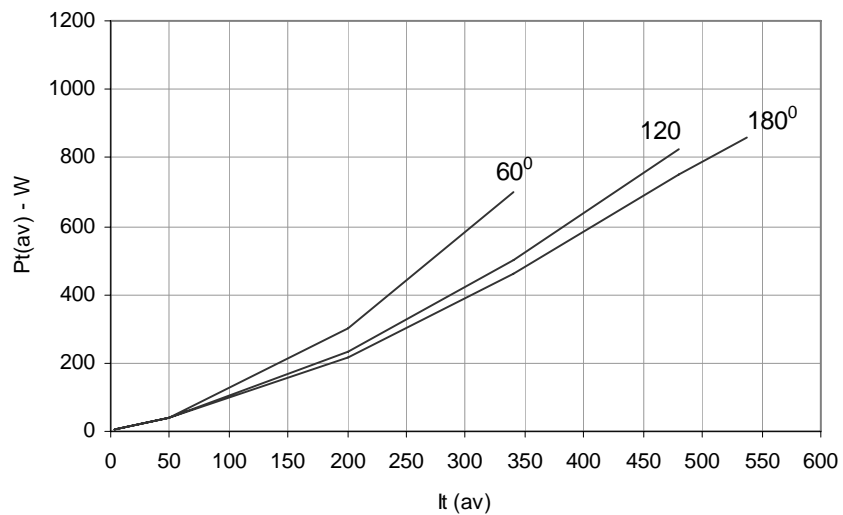
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All dimensions in mm

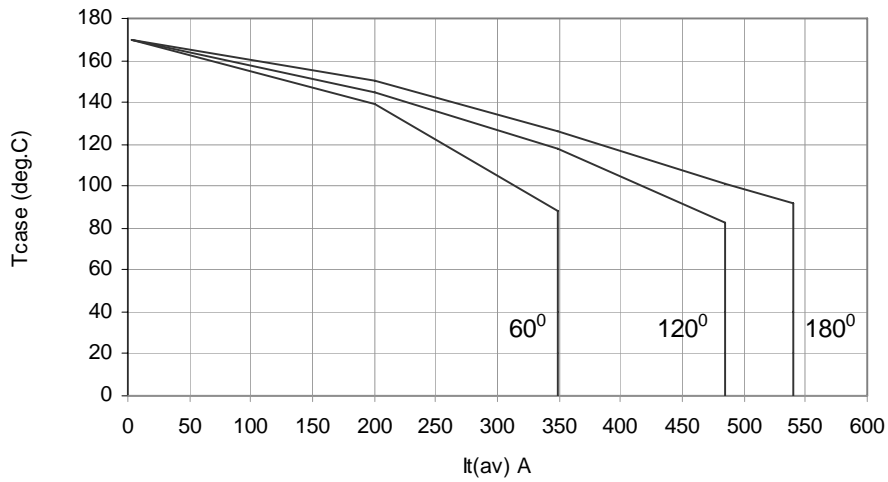
On State Power Loss



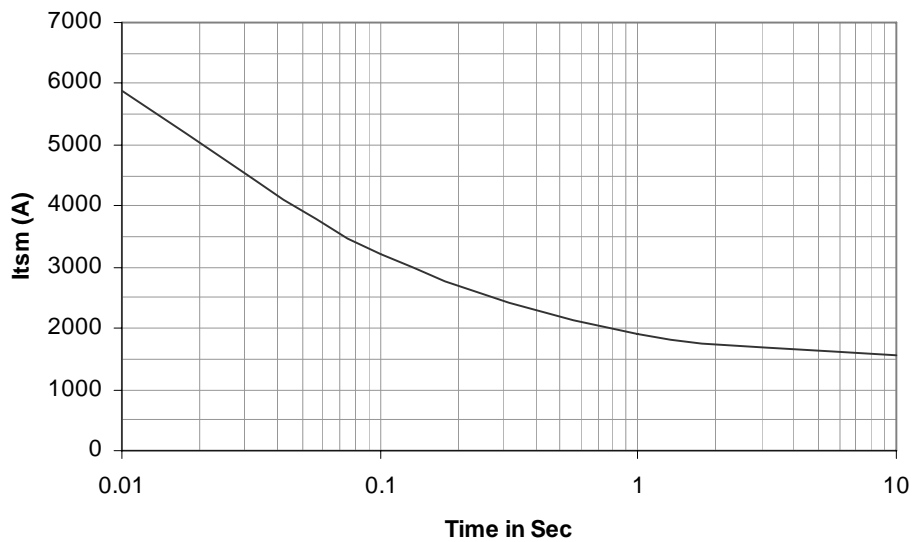
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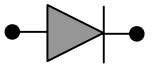


Maximum Permissible Case Temp

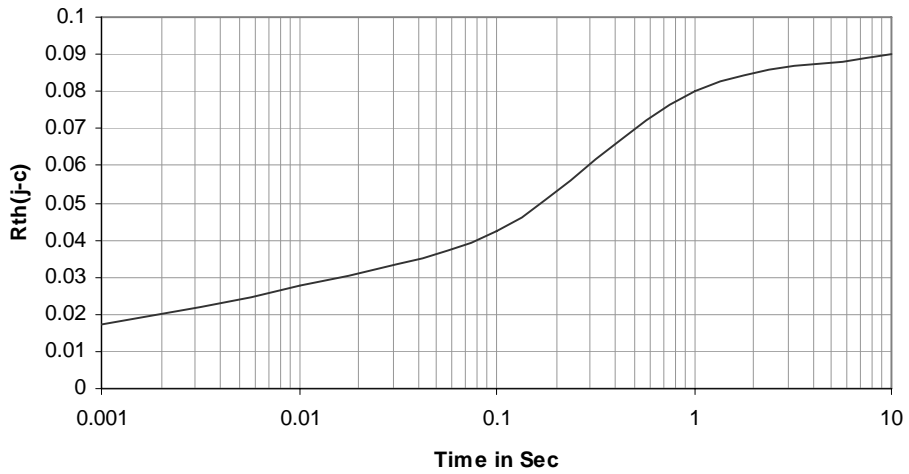


Max non repetitive Surge Current

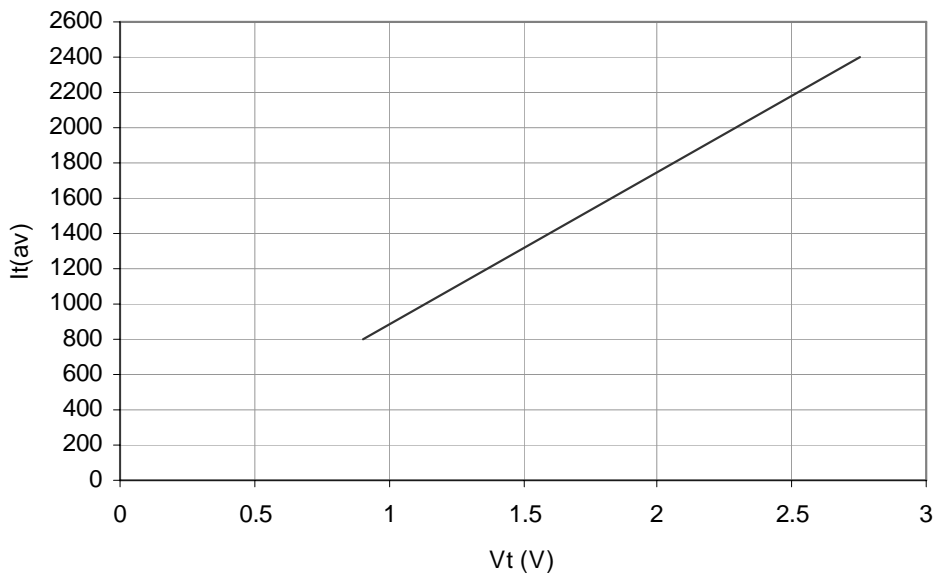




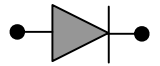
Transient Thermal Impedance Junction to Case



On State Characteristics



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Ordering Information: -

SH	XX	C	540
Hirect make Capsule Diode	$V_{RRM} = XX * 100$ e.g. 12 * 100 = 1200V	Capsule Diode	$I_{F(AV)} = 540A$

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