PST-W3270NC180CAC

GENERAL PURPOSE HIGH POWER STANDARD RECTIFIER

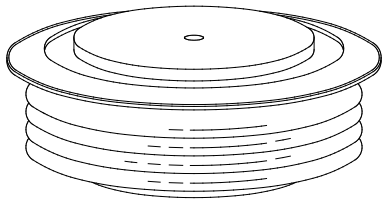
Features:

- . All Diffused Structure
- . High Surge rating
- . Soft Reverse Recovery
- . Rugged Ceramic Hermetic Package
- . Pressure Assembled Device

Typical Applications:

- . Rectifier for Drives Applications
- . Medium voltage converters
- . Pulsed power applications
- . Crowbar Applications

CASE 4D



ELECTRICAL CHARACTERISTICS AND RATINGS

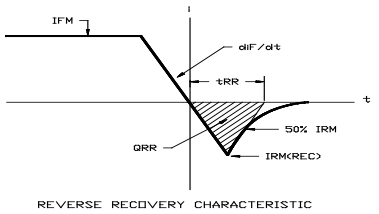
Reverse Blocking

V_{RRM} (1)	V_{RSM} (1)
1800	1900

V_{RRM} = Repetitive peak reverse voltage
V_{RSM} = Non repetitive peak reverse voltage (2)

Repetitive peak reverse leakage	I_{RRM}	5 mA 50 mA

Notes:
All ratings are specified for Tj=25 °C unless otherwise stated.



REVERSE RECOVERY CHARACTERISTIC

Conducting - on state

Parameter	Symbol	Min	Max.	Typ	Units	Conditions
Max. Average value of on-state current	$I_{F(AV)M}$		3270		A	Sinewave,180°conduction,T_c=130°C
RMS value of on-state current	$I_{F(RMS)M}$		5949		A	Nominal value
Peak one cycle surge (non repetitive) current	I_{FSM}		30.4		kA	T_j=25°C, V_R=0,8V_{RRM}, t_p=10ms
I square t	I^2t		4.62×10^6		kA^2s	10 msec
Peak on-state voltage	V_{FM}		1.47		V	I_{FM} = 6400 A; Tj = 25 °C
Reverse Recovery Current (4)	$I_{RM(REC)}$		-		A	I_{FM} = 1000 A; dI_F/dt = 10 A/µs, Tj = 160 °C
Reverse Recovery Charge (4)	Q_{rr}		-		µC	
Reverse Recovery Time (4)	t_{RR}		-		µs	

* For guaranteed maximum values, contact factory

THERMAL AND MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Operating temperature	T_j	-55	+175		°C	
Storage temperature	T_{stg}	-55	+200		°C	
Thermal resistance - junction to case	$R_{\Theta(j-c)}$		-		K/kW	Double side cooled

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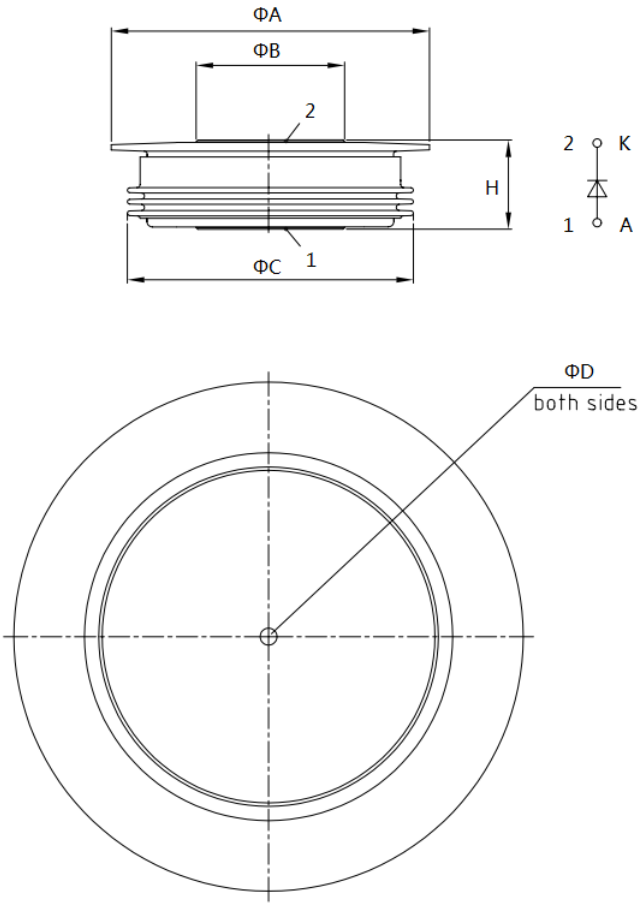
Thermal resistance - case to sink	$R_{\Theta (c-s)}$		-		K/kW	Double side cooled
Thermal resistance - junction to sink	$R_{\Theta (j-s)}$		22		K/kW	Double side cooled
Mounting force	P	19	26		kN	
Weight	W			-	g	

* Mounting surfaces smooth, flat and greased

CASE OUTLINE AND DIMENSIONS



Sym	A	B	C	D	H
mm	75	47	66	3.5×3	26±1

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