

YZPST-ZP8000A-1600V

Rectifier Diode

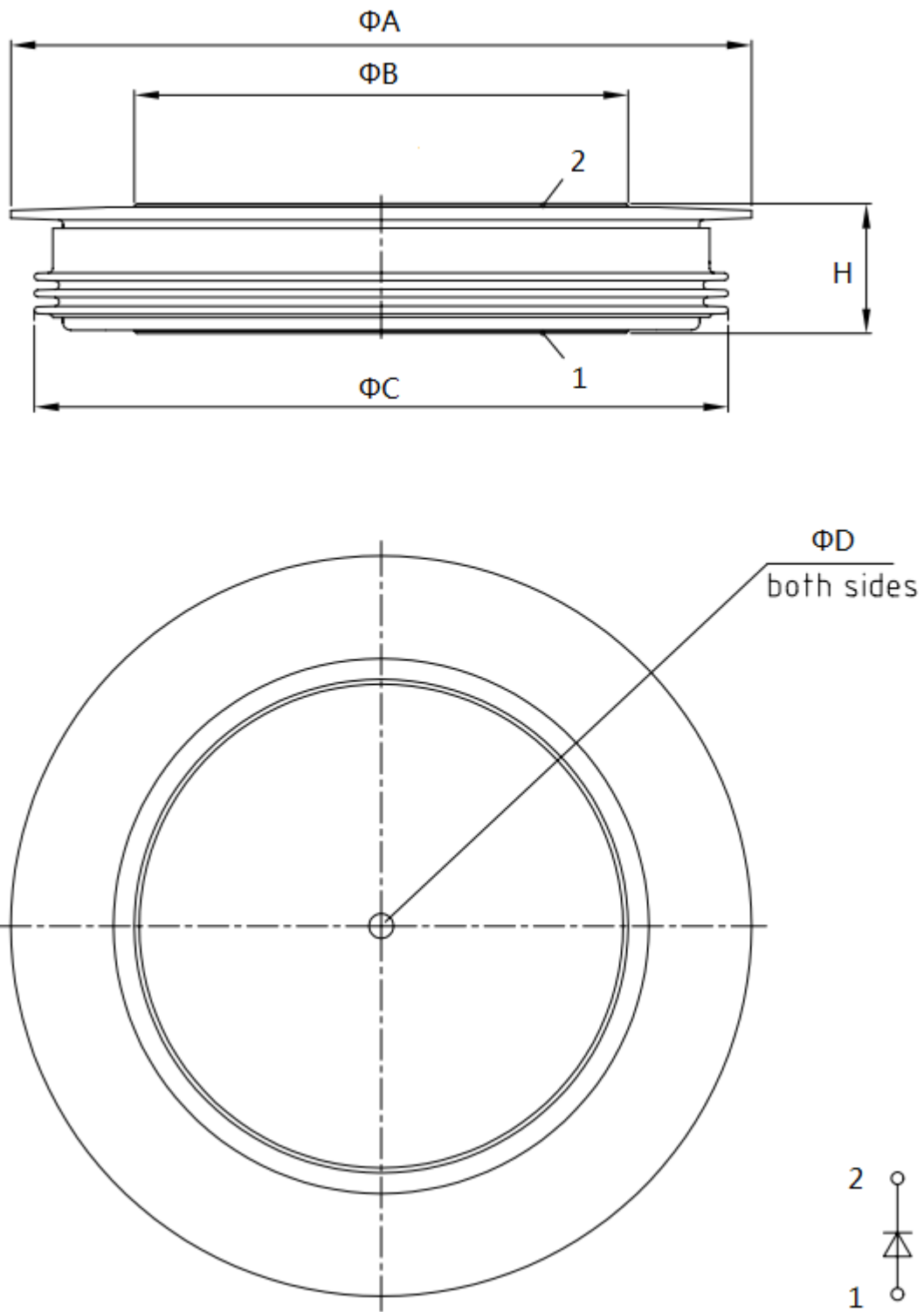
Absolute Maximum Ratings

	VOLTAGE RATINGS	MAXIMUM LIMITS	UNITS
V_{RRM}	Repetitive peak reverse voltage, $T_j=25^\circ\text{C}$	1600	V
V_{RSM}	Non-repetitive peak reverse voltage, $T_j=25^\circ\text{C}$	1700	V
	OTHER RATINGS	MAXIMUM LIMITS	UNITS
$I_{F(AV)}$	Average forward current, $T_j=150^\circ\text{C}$	8410	A
$I_{F(RMS)}$	Nominal RMS forward current, $T_j=25^\circ\text{C}$	15025	A
I_{FSM}	Peak non-repetitive surge $t_p=10\text{ms}$, $T_j=25^\circ\text{C}$	72	kA
I^2t	I^2t capacity for fusing $t_p=10\text{ms}$, $T_j=25^\circ\text{C}$	25.92×10^6	A^2s
T_{jop}	Operating temperature range	-40 to +150	$^\circ\text{C}$
T_{stg}	Storage temperature range	-40 to +150	$^\circ\text{C}$

Characteristics

	PARAMETER	MIN.	TYP.	MAX.	TEST CONDITIONS	UNITS
V_{FM}	Maximum peak forward, $T_j=150^\circ\text{C}$	-	-	1.13	$I_{FM}=6800\text{A}$	V
$V_{(T0)}$	Threshold voltage	-	-	0.67		V
r_T	Slope resistance	-	-	0.038		$\text{m}\Omega$
I_{RRM}	Peak reverse current			100	Rated V_{RRM} , $T_j=150^\circ\text{C}$	mA
					Rated V_{RRM} , $T_j=25^\circ\text{C}$	
Q_{rr}	Recovered charge	-	-	-		μC
I_{rm}	Reverse recovery current	-	-	-	$V_r=50\text{V}$, 50% Chord.	A
t_{rr}	Reverse recovery time, 50% Chord	-	-	-		μs
R_{thJK}	Thermal resistance, junction to heatsink			0.011	Double side cooled	K/W
				0.022	Single side cooled	
F	Mounting force	63	-	91		kN
W_t	Weight	-	-	-		g

Outline Drawing



Type	Sym	A	B	C	D	H
	mm	150	100	108	3.5×3	26±1