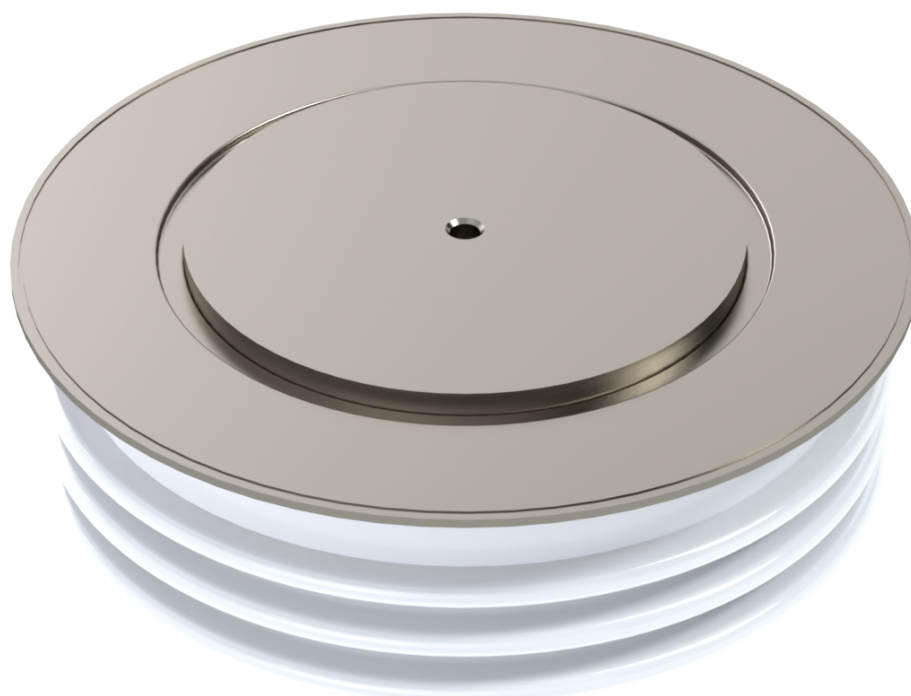


**Rectifier
Diode
Type SA14IP5696J0**

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Date: April, 2020
Data Sheet Issue: 1



ORDERING INFORMATION

(Please quote 12 to 15 digit code as below)

SA	14	IP	5696	J	0	
-	Voltage Code	Outline Code	Current code	Type code	Special code	Optional code

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Absolute Maximum Ratings

VOLTAGE RATINGS		MAXIMUM LIMITS	UNITS
V_{RRM}	Repetitive peak reverse voltage, (note 1)	1400	V
V_{RSM}	Non-repetitive peak reverse voltage, (note 1)	1500	V
V_{RDC}	Maximum reverse D.C. Voltage, (note 1)	930	V
note 1)	De-Rating factor of 0.13% per °C is applicable for T_j below 25°C		

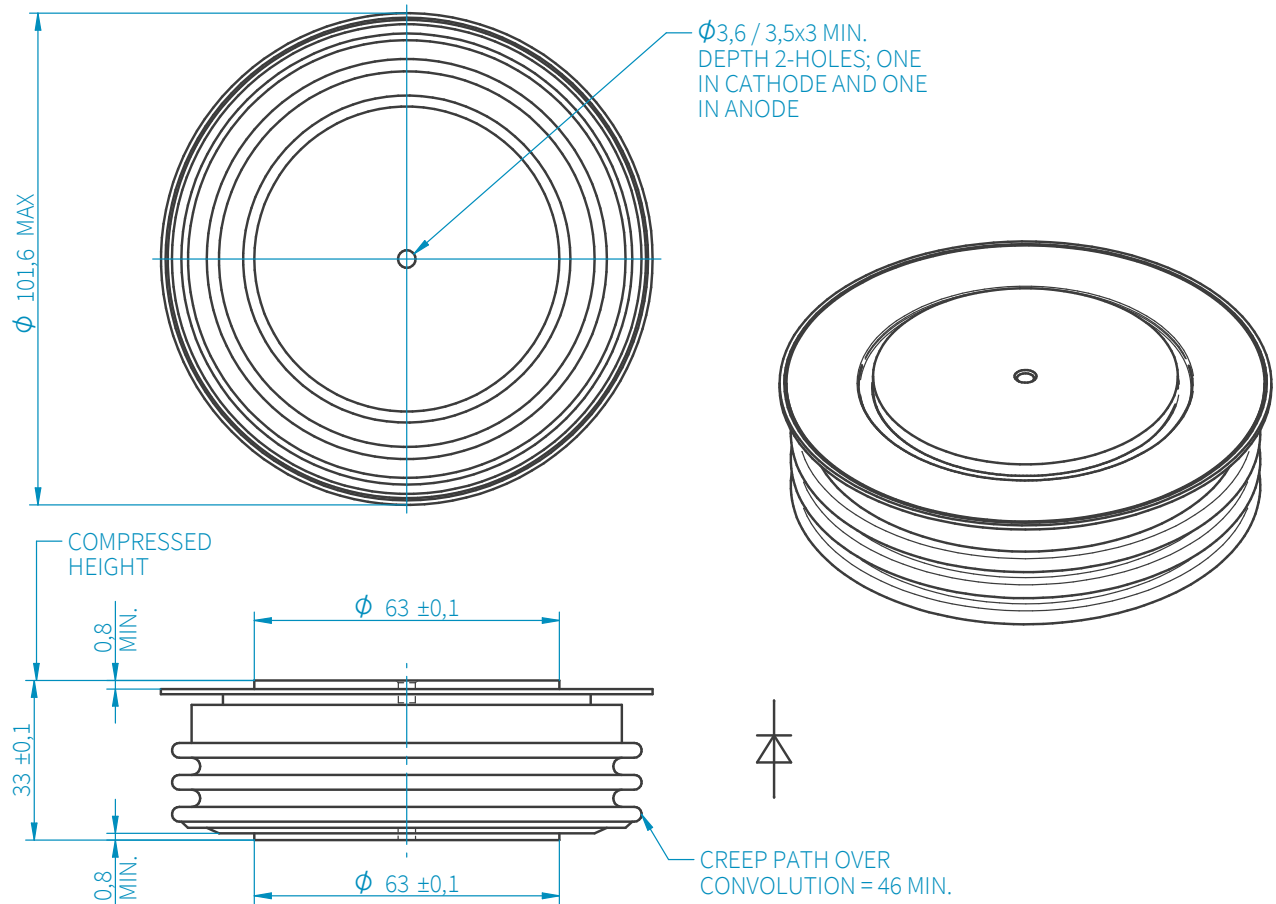
OTHER RATINGS		MAXIMUM LIMITS	UNITS
$I_{F(AV)M}$	Maximum average forward current, $T_{sink} = 55^{\circ}\text{C}$, (note 1)	5696	A
$I_{F(AV)M}$	Maximum average forward current, $T_{sink} = 100^{\circ}\text{C}$, (note 1)	4367	A
$I_{F(RMS)}$	Nominal RMS forward current, $T_{sink} = 25^{\circ}\text{C}$ (note 1)	10163	A
$I_{f(d.c.)}$	D.C. forward current, $T_{sink} = 25^{\circ}\text{C}$ (note 3)	8814	A
I_{FSM}	Peak non-repetitive surge current $t_p = 10\text{ms}$, $V_{RM} = 60\%V_{RRM}$, (note 4)	53.0	kA
I_{FSM2}	Peak non-repetitive surge current $t_p = 10\text{ms}$, $V_{RM} \leq 10\text{V}$, (note 4)	59.0	kA
I^2t	I^2t capacity for fusing $t_p = 10\text{ms}$, $V_{RM} = 60\%V_{RRM}$, (note 4)	$14.0 \cdot 10^6$	A^2s
I^2t	I^2t capacity for fusing $t_p = 10\text{ms}$, $V_{RM} \leq 10\text{V}$, (note 4)	$17.4 \cdot 10^6$	A^2s
T_{jop}	Operating temperature range	-55 to +190	°C
T_{stg}	Storage temperature range	-55 to +200	°C
note 1)	Double-side cooled, single phase, 50Hz, 180° half-sinewave.		
note 3)	Double-side cooled.		
note 4)	Half-sinewave, 190°C T_j initial.		

Characteristics

	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _{FM}	Maximum peak forward voltage	I _{FM} =6800A	-	-	1.05	V
V _{T0}	Threshold Voltage		-	-	0.65	V
r _T	Slope resistance		-	-	0.059	mΩ
I _{RRM}	Peak reverse current	Rated V _{RRM}	-	-	60	mA
R _{thJK}	Thermal resistance, junction to heatsink	Double side cooled	-	-	0.016	K/W
		Single side cooled	-	-	0.032	K/W
F	Mounting force	note 2)	27	-	34	kN
W _t	Weight		-	1000	-	g
note 1)	Unless otherwise indicated T _j = 190°C					
note 2)	For other clamp forces consult factory					

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Outline Drawing



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