Fast Recovery Diode Type SA25MP2698Z0



Contact us!

Date: February, 2020 Data Sheet Issue: 1



ORDERING INFORMATION			(Please quote 12 to 15 digit code as below)			
SA	25	MP	2698	Z	0	
-	Voltage Code	MP : standard capsule MG : rupture rated capsule ML : extended rupture rated capsule	Current code	Type code	Special code	Optional code

Find more!



Absolute Maximum Ratings

	VOLTAGE RATINGS	MAXIMUM LIMITS	UNITS
V_{RRM}	Repetitive peak reverse voltage, (note 1)	2500	V
V_{RSM}	Non-repetitive peak reverse voltage, (note 1)	2600	V
V _{RDC}	Maximum reverse D.C. Voltage, (note 1)	1600	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°C, (note 1)	2698	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 1)	1825	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 2)	1165	А
I _{F(RMS)}	Nominal RMS forward current, T _{sink} = 25°C (note 1)	4979	A
I _{f(d.c.)}	D.C. forward current, T _{sink} = 25°C (note 3)	4545	А
I _{FSM}	Peak non-repetitive surge current t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	27.8	kA
I _{FSM2}	Peak non-repetitive surge current t_p = 10ms, $V_{RM} \le 10V$, (note 4)	30.6	kA
l ² t	I^2 t capacity for fusing $t_p = 10$ ms, $V_{RM} = 60\%V_{RRM}$, (note 4)	3.86 · 10 ⁶	A^2s
I ² t	$\rm I^2t$ capacity for fusing $\rm t_p$ = 10ms, $\rm V_{RM} \le$ 10V, (note 4)	4.68 · 10 ⁶	A^2s
T _{jop}	Operating temperature range	-40 to +150	°C
T _{stg}	Storage temperature range	-40 to +150	°C
note 1)	Double-side cooled, single phase, 50Hz, 180° half-sinewave.		
note 2)	Single-side cooled, single phase, 50Hz, 180° half-sinewave.		
note 3)	Double-side cooled.		
note 4)	Half-sinewave, 150°C T _j initial.		



Characteristics

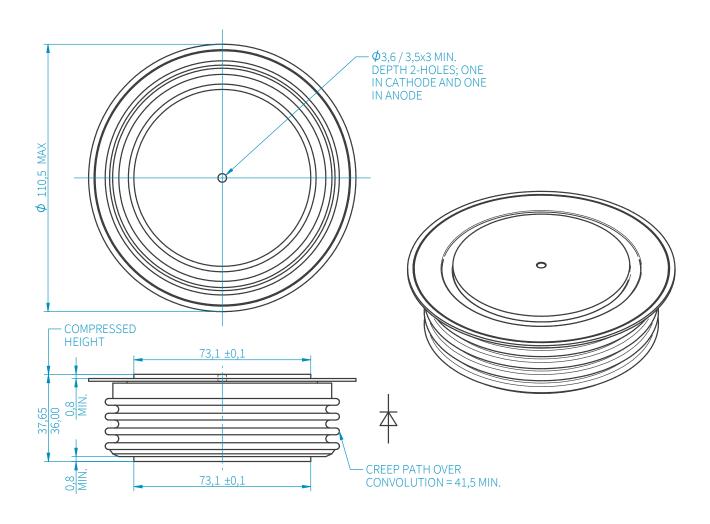
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V_{FM}	Maximum peak forward voltage	I _{FM} =6000A	-	-	3.0	V
v FIM		I _{FM} =5400A	-	-	2.9	V
V_{T0}	Threshold Voltage		-	-	1.00	V
r _T	Slope resistance		-	-	0.33	$m\Omega$
V_{FRM}	Maximum forward recovery voltage	di/dt = 1000A/μs, T _j = 25°C	-	-	20	V
V FRM		di/dt = 1000A/μs	-	-	45	V
I _{RRM}	Peak reverse current	Rated V _{RRM}	-	-	150	mA
Q _{rr}	Recovered charge		-	1200	-	μC
Q _{ra}	Recovered charge, 50% Chord	$I_{FM} = 1000A$, $t_p = 1000\mu s$, $di/dt = 60A/\mu s$, $V_R = 50V$,	-	620	800	μC
I _{rm}	Reverse recovery current	50% Chord.	-	200	-	А
t _{rr}	Reverse recovery time, 50% Chord		-	6.2	-	μs
R_{thJK}	Thermal resistance, junction to heatsink	Double side cooled	-	-	0.011	K/W
rtnJK		Single side cooled	-	-	0.022	K/W
F	Mounting force	note 2)	37	-	47	kN
W _t	Weight		-	1700	-	g
note 1)	Unless otherwise indicated T _j = 150°C					
note 2)	For other clamp forces consult factory					

Request full technical data sheet via e-mail, free of charge:

Order Now!



Outline Drawing



SANCONA®

technical solutions

SANCONA GmbH

An der Hebemärchte 26 D-04316 Leipzig // Registry Court: Leipzig HRB 32946 VAT Reg No.: DE308741810

Tax number: 232/118/085686

The information contained herein is confidential and is protected by Copyright. The information may not be used or disclosed except with written permission of and in the manner permitted by the proprietors SANCONA GmbH. In the interest of product improvement, SANCONA reserves the right to change specifications at any time without prior notice. Devices with a suffix code (2-letter, 3-letter or letter/digit/letter combination) added to their generic code are not necessarily subject to the conditions and limits contained in this report.

©SANCONA GmbH