Rectifier Diode Type SA35MG5092J0



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Date: August, 2020 Data Sheet Issue: 1



ORDERING INFORMATION			(Please quote 12 to 15 digit code as below)			
SA	35	MG	5092	J	0	
		MP = standard capsule				
-	Voltage Code	MG = rupture rated capsule	Current code	Type code	Special code	Optional code
		ML = extended rupture rated capsule				

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Absolute Maximum Ratings

	VOLTAGE RATINGS	MAXIMUM LIMITS	UNITS
V_{RRM}	Repetitive peak reverse voltage, (note 1)	3500	V
V_{RSM}	Non-repetitive peak reverse voltage, (note 1)	3600	V
V _{RDC}	Maximum reverse D.C. Voltage, (note 1)	1875	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)	5092	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 1)	3494	Α
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 2)	2114	Α
I _{F(RMS)}	Nominal RMS forward current, T _{sink} = 25°C (note 1)	9405	Α
I _{f(d.c.)}	D.C. forward current, T _{sink} = 25°C (note 3)	6765	А
I _{FSM}	Peak non-repetitive surge current t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	58.0	kA
I _{FSM2}	Peak non-repetitive surge current t_p = 10ms, $V_{RM} \le 10V$, (note 4)	63.8	kA
l ² t	I^2 t capacity for fusing $t_p = 10$ ms, $V_{RM} = 60\%V_{RRM}$, (note 4)	16.8 · 10 ⁶	A^2s
l ² t	$\rm I^2t$ capacity for fusing $\rm t_p$ = 10ms, $\rm V_{RM} \leq$ 10V, (note 4)	20.4 · 10 ⁶	A^2s
T _{jop}	Operating temperature range	-40 to +160	°C
T _{stg}	Storage temperature range	-40 to +160	°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, 160°C T _j initial.		



Characteristics

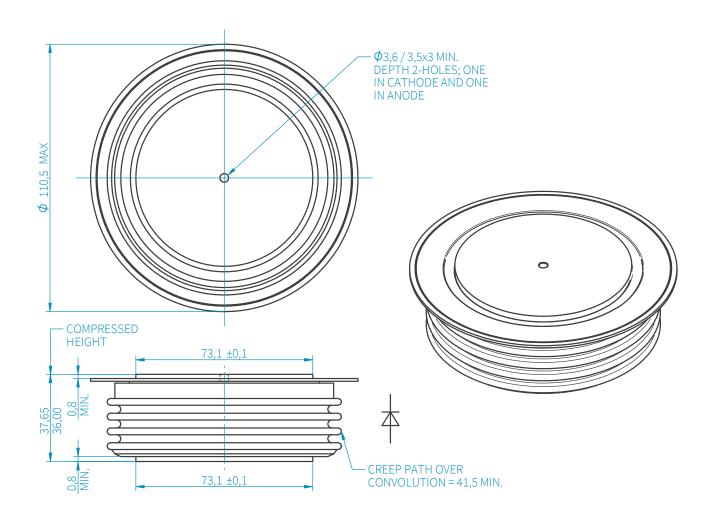
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V_{FM}	Maximum peak forward voltage	I _{FM} =6000A	-	-	1.35	V
		I _{FM} =15300A	-	-	1.97	V
V_{T0}	Threshold Voltage		-	-	0.874	V
r_{\top}	Slope resistance		-	-	0.0794	mΩ
I _{RRM}	Peak reverse current	Rated V _{RRM}	-	-	150	mA
		Rated V _{RRM} , T _j = 25°C	-	-	150	mA
R_{thJK}	Thermal resistance, junction to heatsink	Double side cooled	-	-	0.011	K/W
		Single side cooled	-	-	0.022	K/W
F	Mounting force	note 2)	27	-	47	kN
W_t	Weight		-	1700	-	g
note 1)	Unless otherwise indicated T _j = 160°C					
note 2)	For other clamp forces consult factory					

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