Rectifier Diode Type SA22DN2840J0



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SA	22	DN	2840	J	0	
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Absolute Maximum Ratings

	VOLTAGE RATINGS	MAXIMUM LIMITS	UNITS
V _{RRM}	Repetitive peak reverse voltage, (note 1)	2200	V
V_{RSM}	Non-repetitive peak reverse voltage, (note 1)	2300	V
V _{RDC}	Maximum reverse D.C. Voltage, (note 1)	1350	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)	2840	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 1)	2100	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 2)	1265	А
I _{F(RMS)}	Nominal RMS forward current, T _{sink} = 25°C (note 1)	5140	Α
I _{f(d.c.)}	D.C. forward current, T _{sink} = 25°C (note 3)	4360	Α
I _{FSM}	Peak non-repetitive surge current t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	20	kA
I _{FSM2}	Peak non-repetitive surge current t_p = 10ms, $V_{RM} \le$ 10V, (note 4)	22	kA
l ² t	I^2 t capacity for fusing $t_p = 10$ ms, $V_{RM} = 60\%V_{RRM}$, (note 4)	$2.00 \cdot 10^6$	A^2s
l ² t	$\rm I^2t$ capacity for fusing $\rm t_p$ = 10ms, $\rm V_{RM} \leq$ 10V, (note 4)	2.42 · 10 ⁶	A^2s
T _{jop}	Operating temperature range	-40 to +180	°C
T _{stg}	Storage temperature range	-55 to +180	°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, 180°C T _j initial.		



Characteristics

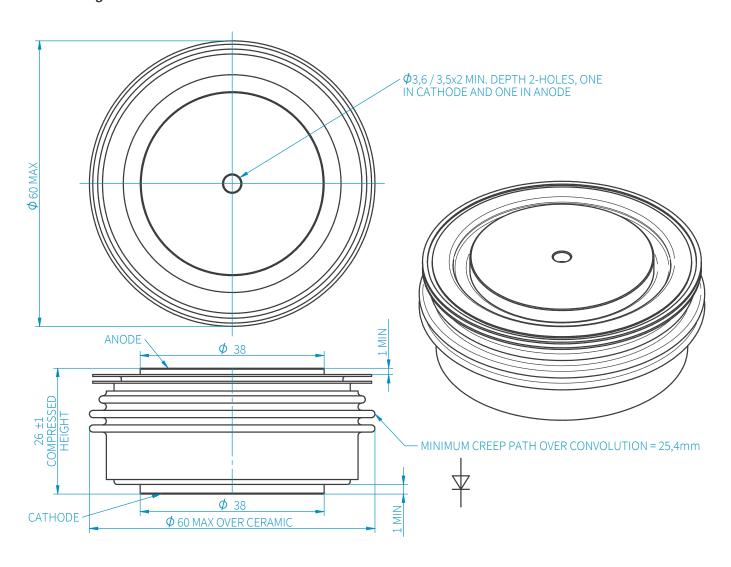
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _{FM}	Maximum peak forward voltage	I _{FM} =3000A	-	-	1.35	V
VНМ	Maximum peak lorward voltage	I _{FM} =10400A	-	-	2.38	V
V_{T0}	Threshold Voltage		-	-	0.940	\vee
r _T	Slope resistance		-	-	0.139	$m\Omega$
I _{RRM}	Peak reverse current	Rated V _{RRM}	-	-	50	mA
Q_{rr}	Recovered charge		-	2600	-	μC
Q _{ra}	Recovered charge, 50% Chord	$I_{FM} = 1000A$, $t_p = 1000 \mu s$,	-	2000	2350	μC
I _{rm}	Reverse recovery current	$di/dt = 10A/\mu s$, $V_R = 50V$	-	150	-	А
t _{rr}	Reverse recovery time, 50% Chord		-	27	-	μs
R _{thJK}	Thermal resistance, junction to heatsink	Double side cooled	-	-	0.023	K/W
``thJK		Single side cooled	-	-	0.046	K/W
F	Mounting force	note 2)	16	-	20	kN
W _t	Weight		-	330	-	g
note 1)	Unless otherwise indicated T _j = 180°C					
note 2)	For other clamp forces consult factory					

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