Soft Recovery Diode Type SA25IP2413Z0



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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)	1500	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)	2413	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 1)	1100	Α
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 2)	613	Α
I _{F(RMS)}	Nominal RMS forward current, T _{sink} = 25°C (note 1)	4866	Α
I _{f(d.c.)}	D.C. forward current, T _{sink} = 25°C (note 3)	3978	А
I _{FSM}	Peak non-repetitive surge current t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	32.0	kA
I _{FSM2}	Peak non-repetitive surge current t_p = 10ms, $V_{RM} \le 10V$, (note 4)	35.2	kA
l ² t	I^2 t capacity for fusing $t_p = 10$ ms, $V_{RM} = 60\%V_{RRM}$, (note 4)	$5.12 \cdot 10^6$	A^2s
I ² t	$\rm I^2t$ capacity for fusing $\rm t_p$ = 10ms, $\rm V_{RM} \leq$ 10V, (note 4)	6.20 · 10 ⁶	A^2s
T _{jop}	Operating temperature range	-40 to +125	°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, 125°C T _j initial.		



Characteristics

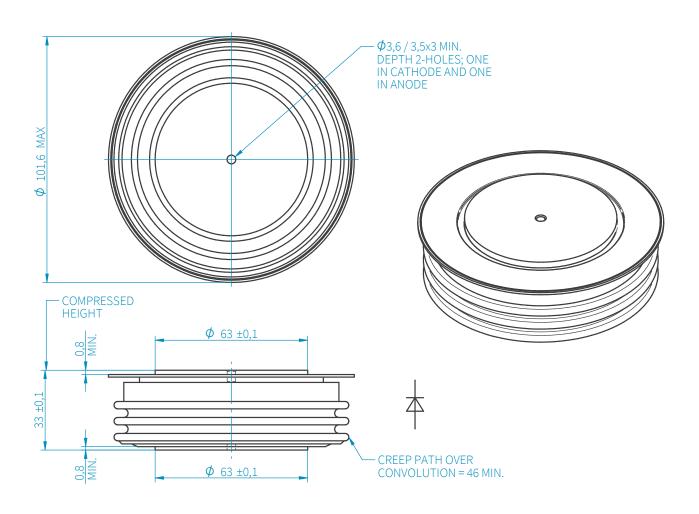
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _{FM}	Maximum peak forward voltage	I _{FM} =4000A	-	-	1.6	V
		I _{FM} =4830A	-	-	1.7	V
V_{T0}	Threshold Voltage		-	-	1.09	V
r _T	Slope resistance		-	-	0.121	mΩ
V_{FRM}	Maximum forward recovery voltage	di/dt = 1000A/µs, T _j = 25 o C	-	-	25	V
		di/dt = 1000A/μs	-	-	40	V
I _{RRM}	Peak reverse current	Rated V _{RRM} , T _j = 25 o C	-	-	30	mA
'KKM		Rated V _{RRM}	-	-	100	mA
Q _{rr}	Recovered charge		-	2500	-	μC
Q _{ra}	Recovered charge, 50% Chord	$I_{FM} = 1000A$, $t_p = 500\mu s$, $di/dt = 200A/\mu s$, $V_r = 50V$,	-	1275	1600	μC
I _{rm}	Reverse recovery current	50% Chord.	-	510	-	А
t _{rr}	Reverse recovery time, 50% Chord		-	5.0	-	μs
R.,	Thermal resistance, junction to sink	Double side cooled	-	-	0.016	K/W
R _{thJK}		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 = 125°C					
note 2)	For other clamping forces, consult factory.					

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