Soft Recovery Diode Type SA25YP0955Z0



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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)	955	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 1)	424	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 2)	232	А
I _{F(RMS)}	Nominal RMS forward current, T _{sink} = 25°C (note 1)	1942	А
I _{f(d.c.)}	D.C. forward current, T _{sink} = 25°C (note 3)	1552	А
I _{FSM}	Peak non-repetitive surge current t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	11.70	kA
I _{FSM2}	Peak non-repetitive surge current t_p = 10ms, $V_{RM} \le$ 10V, (note 4)	12.87	kA
l ² t	I^2 t capacity for fusing t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	$684 \cdot 10^3$	A^2s
l ² t	I^2 t capacity for fusing t_p = 10ms, $V_{RM} \le 10$ V, (note 4)	830 · 10 ³	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

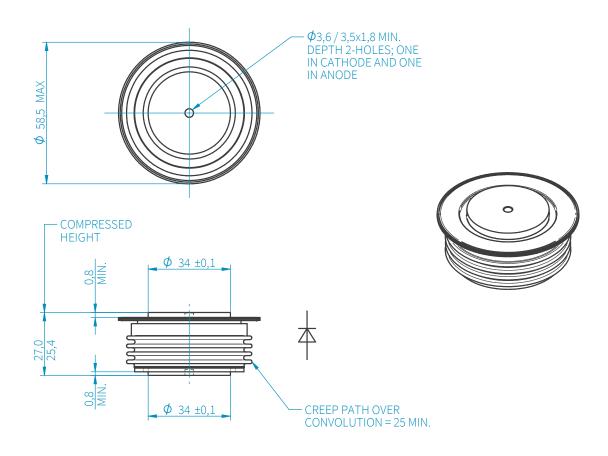
V _{FM} M	Maximum peak forward voltage	L -1400A				
v FIM		I _{FM} =1400A	-	-	1.90	V
		I _{FM} =1900A	-	-	2.07	V
V _{T0} T	Threshold Voltage		-	-	1.44	V
r _T S	Slope resistance		-	-	0.33	mΩ
V _{FRM} M	Maximum forward recovery voltage	$di/dt = 1000A/\mu s$, $T_j = 25 \circ C$	-	-	40	V
V FRM		di/dt = 1000A/μs	-	-	70	V
I _{RRM} P	Peak reverse current	Rated V _{RRM}	-	-	50	mA
Q _{rr} R	Recovered charge		-	500	650	μC
Q _{ra} R	Recovered charge, 50% Chord	$I_{FM} = 1000A$, $t_p = 1000\mu s$, $di/dt = 60A/\mu s$, $V_r = 50V$,	-	175	-	μC
I _{rm} R	Reverse recovery current	50% Chord.	-	100	-	А
t _{rr} R	Reverse recovery time, 50% Chord		-	3.4	-	μs
R _{thJK} T	Thermal resistance, junction to sink	Double side cooled	-	-	0.033	K/W
rtnJK		Single side cooled	-	-	0.066	K/W
F M	Mounting force	(note 2)	10	-	20	kN
W _t	Veight		-	340	-	g
note 1) U	Jnless otherwise indicated T _j = 125°C					
note 2) Fo	For other clamping forces, consult factory.					

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