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Data Sheet

Type: EC550µ900d085136KF6

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Technical data

Nominal capacitance	C_N	550	µF ± 10%
Nominal voltage dc	U_{NDC}	900	V
Surge voltage	U_S	1350	V
Energy	W_N	223	Ws
Max. AC current @ T_{case}=30°C/10 kHz	I_{RMS}	54	A
Max. Peak periodic current	$\hat{I}_{Periodic}$	5,3	kA
Max. Pulse rise time	$\Delta U/\Delta t$	9,7	V/µs
Dissipation factor @ 1 kHz	tanδ	<200	$x10^{-4}$
Series resistance @ 10 kHz	R_{ESR}	<4,7	mΩ

Max. Power loss @ $\vartheta_{hotspot}$ 85°C / nat. convection / 10kHz

@ ϑ_{case}	I	P_{max}
40°C	49 A	11 W
50°C	43 A	8,8 W
60°C	39 A	6,3 W
70°C	28 A	3,8 W

U_N-Derating

@ ϑ_{case}	U_{Nmax}
70°C	U_N x 1
75°C	U_N x 0,9
80°C	U_N x 0,8
85°C	U_N x 0,7

Min. Operating temperature	ϑ_{min}	-40	°C
Max. Operating temperature (I_R =0)	ϑ_{max}	+85	°C
Storage temperature	ϑ_{Lager}	-40...+85	°C
Thermal resistance (case hotspot)	R_{th}	2	K/W
Climatic category DIN IEC 68/1		40/085/21	
Test voltage between terminals	U_{TT}	1350	V dc / 2s
Test voltage between terminal/case	U_{TC}	2800	V ac / 10s
Life expectancy @ hot spot 60°C		100 000	h

General data

Coating	aluminium case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	brass nickel plated M6, max. torque 6 Nm
Weight	approx. 1kg
RoHS compliant	

Dimensions

Diameter	Ø	85,0	+0,3 mm
Length	L	136,0	±0,5 mm
Pitch	RM	32,0	±1 mm