

Type: EC530μ1200d116136KF6

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Technical data

Nominal capacitance	C_N	530 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	1200 V
Surge voltage	U_S	1800 V
Energy	W_N	381 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}/10\text{ kHz}$	I_{RMS}	64 A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	3973 A
Max. Pulse rise time	$\Delta U/\Delta t$	7,5 V/ μs
Dissipation factor @ 1 kHz	$\tan\delta$	$<150 \times 10^{-4}$
Equivalent series resistance @ 10 kHz	R_{ESR}	$<5\text{ m}\Omega$

Dimensions

Diameter	\varnothing	116,0	+1 mm
Length	L	136,0	$\pm 2\text{ mm}$
Pitch	RM	50,0	$\pm 0,5\text{ mm}$

Max. Power loss @ $\vartheta_{\text{hotspot}} 85^\circ\text{C} / 10\text{kHz}$

@ ϑ_{case}	I	P _{max}
40°C	58 A	12 W
50°C	51 A	9,3 W
60°C	43 A	6,7 W
70°C	33 A	4,0 W

U_N -Derating

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

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}	1,5 K/W
Climatic category DIN IEC 68/1		40/085/21

Test voltage between terminals	U_{TT}	1800 V dc / 2s
Test voltage between terminal/case	U_{TC}	3400 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, max. torque 6 Nm
Weight	approx. 1,8 kg

RoHS compliant

