

Type: EC530μ1200d116136KF6

version: 1.0
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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

