

Supercapacitors Automotive Grade Series

Overview

Supercapacitors Automotive Grade Series are intended for power back-up in automotive applications. Enhancements to the design and material upgrades have been introduced to deliver 1,000 hours at 85°C/85% RH rated voltage and to meet automotive grade requirements with operational temperature range of -40°C to 85°C.

Benefits

- Meets automotive grade tests and requirements
- Wide range of operating temperatures
- Maximum operating voltage of 5.5VDC
- Maintenance free
- High resistance to liquid leakages
- Lead-free and RoHS compliant
- Long lifetime
- High reliability
- Suitable for harsh environments

Part Number System

FMD0H 334 Z F

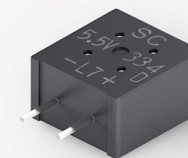
FU0H 105 Z F



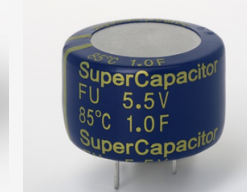
Electrical Characteristics

FMD0H334ZF 5.5V 0.33F ESR 25Ω

FU0H105ZF 5.5V 1F ESR 10Ω



FMD0H334ZF



FU0H105ZF

Features

- 85°C/85% rated voltage humidity bias up to 1,000 hours
- 85°C rated voltage operational life up to 1,000 hours (FMD series)
- 85°C rated voltage operational life up to 4,000 hours (FU0H series)
- Durability against vibration and mechanical shock

Estimated Lifetime

Temp. (°C)	Estimated Lifetime at 5.5VDC (hours)	
	FMD0H334ZF	FU0H105ZF
25	299,794	529,633
45	74,948	132,408
65	18,737	33,102

Applications

- Automotive
- ADAS
- IVI
- Autonomous driving
- Central gateway ECUs
- Medical
- Industrial
- Machinery

<https://www.kemet.com/en/us/capacitors/supercapacitors.html>