

Product Overview

LC06511FMX: Battery Protection IC, OTP Function, Sense Resistor type, 1-Cell Lithium-Ion Battery

For complete documentation, see the data sheet.

LC06511FMX is a protection IC for 1 cell lithium-ion or lithium-polymer battery. It provides highly accurate over-charge, over-discharge, over-current protection. Current is detected by high precision external chip resistor. Which realizes accurate current detection over temperature.

Features

- Highly accurate detection voltage/current
- Small package
- Selectable standard protection value
- Over charge detection voltage = 4.276V, 4.426V, 4.476V
- Over discharge detection voltage = 2.3V, 2.5V, 2.8V
- Discharge over current detection voltage = 6.3mV, 7.5mV
- Charge over current detection voltage = 5.0mV, 6.0mV

Applications

- 1-cell Lithium-ion Batteries Protection

Benefits

- Prevention of fire, over heating
- Reduce the space of PCB
- Easy to use

End Products

- Wearable device

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	V _{ov} Typ. (mV)	V _{uv} Typ. (mV)	I _{oc} Typ. (A)	V _{oc} Typ. (mV)	I _{och} Typ. (A)	V _{och} Typ. (mV)	I _{oc2} Typ. (A)	V _{oc2} Typ. (mV)	R _{ss(on)} typ @ V _{qs} =4.5V (mΩ)	Auto Wake Up Enable (Yes/No)	0 V Battery Charge Enable (Yes/No)	Package Type
LC06511F1AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4276	2300	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F1BMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4276	2300	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F2AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4426	2300	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F2BMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4426	2300	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F3AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4476	2300	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F3BMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4476	2300	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F4AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4276	2500	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F4BMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4276	2500	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F5AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4426	2500	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F5BMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4426	2500	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F6AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4476	2500	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F6BMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4476	2500	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P
LC06511F7AMXTAG	0.2667	Pb-free Halide free non AEC-Q and PPAP	NEW	4276	2800	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1.4, 0.5P

LC06511F7BMXTAG	0.2667	Pb-free Halide free non AEC- Q and PPAP	NEW	4276	2800	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1. 4, 0.5P
LC06511F8AMXTAG	0.2667	Pb-free Halide free non AEC- Q and PPAP	NEW	4426	2800	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1. 4, 0.5P
LC06511F8BMXTAG	0.2667	Pb-free Halide free non AEC- Q and PPAP	NEW	4426	2800	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1. 4, 0.5P
LC06511F9AMXTAG	0.2667	Pb-free Halide free non AEC- Q and PPAP	NEW	4476	2800	-	6.3	-	-5	-	30	-	Yes	Yes	X2DF N6 1.4x1. 4, 0.5P
LC06511F9BMXTAG	0.2667	Pb-free Halide free non AEC- Q and PPAP	NEW	4476	2800	-	7.5	-	-6	-	30	-	Yes	Yes	X2DF N6 1.4x1. 4, 0.5P

For more information please contact your local sales support at www.onsemi.com.

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