R5463K Series

Detector Threshold Range 0.05V to 0.2V (0.005V steps)

High Accuracy Li-ion/polymer 2Cell protector

discharge-current Voltage Accuracy ±10mV

Output Delay Time (tVDET3) 12ms

Voltage Accuracy ±20mV

Detector Threshold (Vshort) Typ. 1.0V Output Delay Time (tshort) Typ. 300µs

...... Unavailable

······ DFN(PLP)1820-6B

Output Delay Time (tVDET4) 8ms

The R5463x Series are high voltage CMOS-based protection ICs for over-charge/discharge of rechargeable two-cell Li-ion/Lithium polymer, further include a short circuit protection circuit for preventing large external short circuit current and the protection circuits against the excess discharge-current and excess charge current.

Each of these ICs is composed of six voltage detectors, reference units, a delay circuit, a short circuit protector, an oscillator, a counter, and logic circuits. DFN(PLP)1820-6B package is available.

Excess

(Vdet3)

Excess

(VDET4)

Packages ··

charge-current

Short Protection

• 0V-battery charge

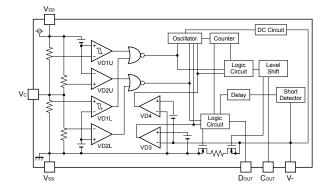
FEATURES

KICO

- Supply Voltage (VDD) 12V (Absolute Maximum Rating)
- Operating Input Voltage Range (VDD) ------ 1.5V to 10.0V
- Standby Current (Is) Max. 0.1µA
 Over-charge Detector Threshold Range 3.65V to 4.32V (0.005V Steps) Voltage Accuracy ±20mV Output Delay Time (tVDET1) 1.0s
- Over-discharge Detector Threshold Range····· 2.0 to 3.2V (0.1V Steps) (VDET2) Voltage Accuracy······ ±1.0% Output Delay Time (tVDET2)···· 128ms

BLOCK DIAGRAMS

R5463K2xxAG



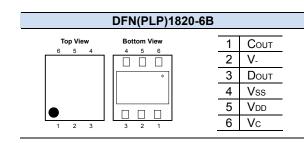
SELECTION GUIDE

Halogen Free	Package	Quantity per Reel	Part No.
H/F	DFN(PLP)1820-6B	5,000 pcs	R5463K2xx\$* -TR
	Number for the R5463x Series our threshold for over-charge,	0 0 0	protection type. ase after Over-charge and with La

- input four threshold for over-charge, over-discharge, excess discharge-current and excess charge-current detectors.
- S: Designation of Output delay option of excess charge-current, excess discharge-current and short circuit.

(A) tVDET1=1s, tVDET2=128ms, tVDET3=12ms, tVDET4=8ms

PACKAGE



*) The tab is substrate level (VDD)

APPLICATIONS

- Li-ion/Li polymer protector of over-charge, over-discharge, excess discharge-current, excess charge-current for battery pack
- High precision protectors for DSLR, portable DVD player and any other gadgets using on board Li-ion/Li polymer battery